DOCUMENT RESUME

ED 351 042 IR 054 249

AUTHOR	Reed-Scott, Jutta, Comp.; Daval, Nicola, Comp.
TITLE	ARL Preservation Statistics, 1990-91: A Compilation of Statistics from the Members of the Association of Research Libraries.
INSTITUTION	Association of Research Libraries, Washington, D.C.d
REPORT NO	ISSN-1050-7442
PUB DATE	92
NOTE	73p.; For the 1987-88 compilation, see ED 315 092.
PUB TYPE	Statistical Data (110) -- Reports - Research/Technical (143) -- Tests/Evaluation Instruments (160)
EDRS PRICE	MF01 Plus Postage. PC Not Available from EDRS.
DESCRIPTORS	Academic Libraries; Administrators; Foreign Countries; Higher Education; *Library Expenditures; *Library Personnel; Library Technicians; Methods; *Microfilm; *Preservation; *Research Libraries
IDENTIFIERS	*Association of Research Libraries; Canada; Paper Deacidification; United States

ABSTRACT

The 1990-91 Association of Research Libraries (ARL) preservation questionnaire, the results of which are reported in this volume, was designed to yield statistical information on the current level of preservation efforts in research libraries and on the key organizational, functional, and fiscal components that characterize preservation programs. The data are divided into three parts. In the first part, summary data tables display the aggregated statistics describing the current level of preservation efforts in ARL libraries. The second part presents an analysis of the core data for all reporting libraries. The analysis includes data from all reporting university and nonuniversity libraries, and the key organizational, functional and fiscal components that characterize preservation programs in ARL libraries and that distinguish between program levels are analyzed. Part 3 provides statistical measures by the size of the collection. A copy of the 1990-91 questionnaire and a section of footnotes to the ARL Preservation Statistics for each member institution conclude the report. (Author/KRN)

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ISSN 1050-7442

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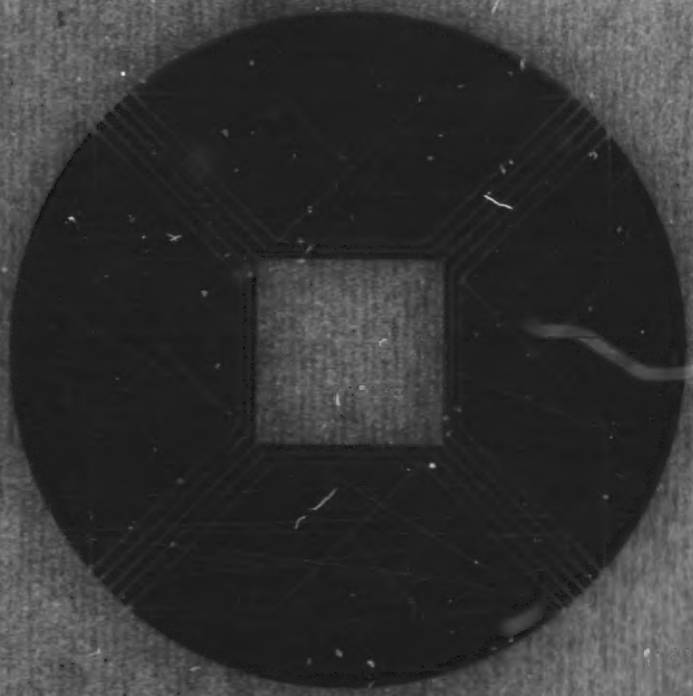
ARL PRESERVATION STATISTICS 1990-91



A Compilation of Statistics from the Members of the Association of Research Libraries

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ARL PRESERVATION STATISTICS

1990-91

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A Compilation of Statistics
from the Members of the
Association of Research Libraries

Compiled by
Jutta Reed-Scott
and
Nicola Daval

ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.

1992

The *ARL Preservation Statistics* is published annually by

Association of Research Libraries
1527 New Hampshire Avenue, N.W.
Washington, D.C. 20036

ISSN 1050-7442

Price: ARL Members $20.00/year
Nonmembers $60.00/year

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Printed in the United States of America

The paper used in this publication meets the minimum requirements of the American National Standard for Information Sciences--Permanence of Paper for Printed Library Materials, ANSI Z39.48-199X.

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Introduction

The 1990-91 *ARL Preservation Statistics* presents data from the U.S. and Canadian research libraries that were members of the Association of Research Libraries during the 1990-91 fiscal year. The ARL membership consists of 120 university libraries and 12 public or private, independent research libraries; 117 libraries submitted data in time for inclusion in this compilation.[1]

The 1990-91 *Preservation Statistics* questionnaire is designed to yield statistical information on the current level of preservation efforts in research libraries, and on the key organizational, functional, and fiscal components that characterize preservation programs.

The 1990-91 data confirm the continuing growth in preservation expenditures, staffing, and activities. Preservation expenditures for the 117 reporting ARL libraries as a whole were over $71 million in 1990-91. Increasingly, funds from external sources are augmenting institutional resources, and a significant portion of preservation budgets comes from grants. In 1991, 90 institutions indicated that they had appointed a preservation administrator. Of those, 55 libraries reported that the preservation program is managed by a full-time preservation administrator, and 35 reported part-time administrators. Total preservation staff in the 117 libraries is 1,744. Professional staff was slightly less than 25 percent, nonprofessionals more than 50 percent, and student assistant FTE 23 percent. During 1990-91, these libraries as a whole performed almost 1 million conservation treatments, with minor repairs accounting for nearly 70 percent of the total production. The libraries microfilmed approximately 123,233 volumes.

The data presented in this publication are not indicative of the quality of preservation work. They are based on quantitative data supplied by 117 ARL member libraries and should not be used as measures of quality of preservation programs. Preservation efforts encompass a diverse array of activities, and there are substantial differences in the nature of preservation work. The *ARL Preservation Statistics* cannot capture completely the richness, sheer variety, and full extent of each library's preservation commitment. Much progress has been achieved, however, in increasing the consistency and hence comparability of the reported quantitative data.

Most of the data contained in this publication are descriptive indices of preservation activities in research libraries, their preservation staffs and expenditures, and preservation outputs. The data are also useful in determining the organization of preservation units and the components of preservation programs. Each library's total expenditures and materials expenditures, as reported to the 1990-91 *ARL Statistics*, are displayed in the tables together with the percentage of preservation expenditures.

Those using the *ARL Preservation Statistics* to compare activities in individual institutions will need to consult the definitions used in the instructions as well as the "Footnotes." Although the definitions and procedures used in the *Preservation Statistics* questionnaire aim at achieving consistency, variant reporting practices do exist among ARL libraries. Care should be used in

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[1]Auburn University became a member of the Association of Research Libraries in May 1992; the University of Western Ontario and the Newberry Library were unable to report their data to the 1990-91 *ARL Preservation Statistics*.

comparing this year's data to data collected in the previous years, as several libraries that were not included in the previous report have reported their data this year.

To aid comparability in the *ARL Preservation Statistics*, expenditures of Canadian libraries are expressed in U.S. dollars, at the rate of 1.1547 Canadian dollars to one U.S. dollar. This exchange rate is the average of the average monthly noon exchange rates published in the *Bank of Canada Review* for the period July 1990 through June 1991. Expenditures reported in Canadian dollars are given in the "Footnotes" to the *ARL Preservation Statistics*.

The report is divided into three parts: Summary Data Tables, Analysis of Core Data for All Reporting ARL Libraries, and Analysis of Core Data Based on Size of Collection.

Part I: Summary Data Tables displays the aggregated statistics describing the current level of preservation efforts in ARL libraries. The data tables contain statistics from all respondents for seven major data categories. Finally, to ensure accuracy and consistency with data submitted by member libraries in the *ARL Statistics*, there is an editorial change in the values reported for contract commercial binding expenditures. When the values reported to the *ARL Preservation Statistics* differed significantly from the values reported to the 1990-91 *ARL Statistics*, the decision was made to use the latter.

Part II: Analysis of Core Data for All Reporting ARL Libraries provides analysis of the responses without displaying the data from individual libraries. The analysis includes data from all reporting university and nonuniversity libraries. The key organizational, functional, and fiscal components that characterize preservation programs in ARL libraries and that distinguish between program levels are analyzed.

Part III: Analysis of Core Data Based on Size of Collection provides statistical measures in four size groupings, based on data reported to the 1990-91 *ARL Statistics*.

Again, all the data in this publication are quantitative and descriptive and are not indicative of qualitative factors. In comparing any individual library preservation program to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and preservations needs.

Part I:

SUMMARY DATA TABLES

Table I: PERSONNEL (FTE)

INSTITUTION	ADMINISTRATION		PERSONNEL (FTE) PRESERVATION UNITS				LIBRARY-WIDE			
	Pres. Administrator (1)	% of Time on Pres. Activities (2)	Prof. Staff (3)	Nonprof. Staff (4)	Students FTE (5)	Total Staff (6)	Prof. Staff (7)	Nonprof. Staff (8)	Students FTE (9)	Total Staff (10)
ALABAMA	yes	10.00%	1	1.5	0.5	3	1.5	3.15	1.5	6.15
ALBERTA	yes	20.00%	0.2	0	0.2	0.4	0.2	15.7	0.2	16.1
ARIZONA	yes	45.00%	0	2.5	0.5	3	0.55	2.55	3	6.1
ARIZONA STATE	yes	100.00%	1	4.8	1	6.8	1	8.25	1.25	10.5
BOSTON	no	N/A	N/A	N/A	N/A	N/A	0.1	6	2	8.1
BRIGHAM YOUNG	yes	100.00%	3	0	14.5	17.5	6	0	15	21
BRITISH COLUMBIA	yes	28.00%	0.28	1	N/A	1.28	0.76	9.88	1.78	12.42
BROWN	yes	100.00%	3	1	1	5	5	7.25	6	18.25
CALIFORNIA, BERKELEY	yes	100.00%	5	14.4	3.8	23.2	11	15.3	10	36.3
CALIFORNIA, DAVIS	yes	100.00%	1	6.5	2.5	10	1	6.5	2.5	10
CALIFORNIA, IRVINE	yes	50.00%	0.5	4	4.3	8.8	0.5	5	2.5	8
CALIFORNIA, LOS ANGELES	yes	100.00%	1	1	0.3	2.3	1.44	7.33	6.5	15.27
CALIFORNIA, RIVERSIDE	yes	50.00%	0.5	0.38	0.13	1.01	0.5	2.93	0.88	4.31
CALIFORNIA, SAN DIEGO	yes	50.00%	N/A	N/A	N/A	N/A	1.6	9.8	6.3	17.7
CALIFORNIA, SANTA BARBARA	yes	10.00%	0.1	5.5	1.5	7.1	0.1	6.5	2	8.6
CASE WESTERN RESERVE	yes	100.00%	2.1	2.1	1	5.2	2.2	2.45	1	5.65
CHICAGO	yes	100.00%	2	9.5	1.7	13.2	2.8	17.3	4.7	24.8
CINCINNATI	yes	50.00%	1.5	6	1.2	8.7	2	7.1	2.8	11.9
COLORADO	no	N/A	N/A	N/A	N/A	N/A	N/A	7.4	2	9.4
COLORADO STATE	yes	5.00%	1.5	6	0.5	8	1.8	6.1	0.7	8.6
COLUMBIA	yes	100.00%	5	27	5.9	37.9	7.7	37.6	15.9	61.2
CONNECTICUT	yes	100.00%	2	4.5	3.9	10.4	2.7	6.7	5.3	14.7
CORNELL	yes	100.00%	6	12.1	0.2	18.3	7	19.9	3.55	30.45
DARTMOUTH	no	N/A	N/A	N/A	N/A	N/A	0.5	5	1	6.5
DELAWARE	yes	100.00%	1	4	3	8	1.25	4.75	3.25	9.25
DUKE	yes	100.00%	1	1	0.5	2.5	2.2	13.7	11.3	27.2
EMORY	yes	100.00%	1.5	3	1.7	6.2	1.9	6.5	2.1	10.5
FLORIDA	yes	100.00%	3	6.5	5	14.5	3	8.5	5.5	17
FLORIDA STATE	yes	10.00%	N/A	N/A	N/A	N/A	1.55	5.45	0	7
GEORGETOWN	no	N/A	1	1	1	3	1.5	5.6	1.8	8.9
GEORGIA	no	N/A	N/A	N/A	N/A	N/A	1.4	12.2	6.9	20.5
GEORGIA TECH	no	N/A	N/A	N/A	N/A	N/A	0.3	2	0.2	2.5
GUELPH	no	N/A	N/A	N/A	N/A	N/A	0.5	3	0.5	4
HARVARD	yes	100.00%	7	31	6	44	17.31	47.45	19.26	84.02
HAWAII	yes	100.00%	1	6	4.5	11.5	1	8	7	16
HOUSTON	no	N/A	N/A	N/A	N/A	N/A	0.3	5.1	0.75	6.15
HOWARD	no	N/A	N/A	N/A	N/A	N/A	0	0	0	0
ILLINOIS, CHICAGO	no	N/A	0	0	0	0	0.1	4.5	0.75	5.35
ILLINOIS, URBANA	yes	100.00%	2	3	1.7	6.7	2.9	8.1	3.6	14.6
INDIANA	yes	100.00%	2	9	3	14	2.2	12.9	6.4	21.5
IOWA	yes	100.00%	1.5	5.5	2.5	9.5	2.75	9.25	4.5	16.5
IOWA STATE	yes	100.00%	1	0.8	0.9	2.7	1.8	4.9	2.5	9.2
JOHNS HOPKINS	yes	100.00%	1	7.05	1.7	9.75	1	8.55	1.7	11.25
KANSAS	no	N/A	N/A	N/A	N/A	N/A	2.23	5	7.51	14.74
KENT STATE	no	N/A	N/A	N/A	N/A	N/A	0	3	3.5	6.5
KENTUCKY	yes	100.00%	2.03	10.5	8.78	21.31	2.82	15.31	9.93	28.06
LAVAL	yes	100.00%	1	7	0.6	8.6	1	7	0.6	8.6
LOUISIANA STATE	yes	100.00%	1.5	1	2.5	5	1.5	5.5	5	12
MCGILL	yes	50.00%	0	0	0	0	0.5	1.05	0	1.55
MCMASTER	yes	100.00%	1	2	0.6	3.6	1	4	1.1	6.1
MANITOBA	yes	100.00%	1	N/A	N/A	1	1	1.4	N/A	2.4
MARYLAND	yes	50.00%	0.5	7.5	6	14	0.5	7.5	6	14
MASSACHUSETTS	no	N/A	N/A	N/A	N/A	N/A	0.15	2.87	2	5.02
MIT	yes	50.00%	2.1	2.9	1.8	6.8	4.2	4.9	3.6	12.7
MIAMI	yes	10.00%	0	0	0	0	0.57	10.8	3.5	14.3
MICHIGAN	yes	100.00%	4	32	5	41	U/A	U/A	U/A	U/A
MICHIGAN STATE	no	N/A	N/A	N/A	N/A	N/A	1.11	5.48	8.08	14.67
MINNESOTA	yes	50.00%	0.75	0	0.25	1	0.75	7.25	3	11
MISSOURI	yes	10.00%	0.5	6	2.5	9	0.9	7	3.5	11.4
NEBRASKA	yes	33.00%	0.33	5	1.5	6.83	2	6.5	2	10.5
NEW MEXICO	no	N/A	0	0	0	0	0	4	5	9
NEW YORK	yes	100.00%	1	7	3.3	11.3	2.15	13.35	5	20.5
NORTH CAROLINA	yes	15.00%	N/A	N/A	N/A	N/A	4.35	10.9	6.68	21.93
NORTH CAROLINA STATE	no	N/A	N/A	N/A	N/A	N/A	0.77	3.28	1.65	5.7

Table I: PERSONNEL (FTE)

INSTITUTION	ADMINISTRATION		PERSONNEL (FTE) PRESERVATION UNITS				LIBRARY-WIDE			
	Pres. Administrator (1)	% of Time on Pres. Activities (2)	Prof. Staff (3)	Nonprof. Staff (4)	Students FTE (5)	Total Staff (6)	Prof. Staff (7)	Nonprof. Staff (8)	Students FTE (9)	Total Staff (10)
NORTHWESTERN	yes	100.00%	4	5	7.13	16.13	4.6	8.8	11.78	25.18
NOTRE DAME	yes	60.00%	1	3	0.75	4.75	1	3	0.75	4.75
OHIO STATE	yes	100.00%	3	8.5	3.5	15	4.2	14.1	7.9	26.2
OKLAHOMA	no	N/A	N/A	N/A	N/A	N/A	0.02	0.2	0.63	0.2
OKLAHOMA STATE	yes	10.00%	0.1	N/A	N/A	0.1	0.65	3.9	2.1	6.65
OREGON	no	N/A	0	4.75	2	6.75	1.2	8.3	5	14.5
PENNSYLVANIA	no	N/A	N/A	N/A	N/A	N/A	2.5	6.5	10	19
PENNSYLVANIA STATE	yes	50.00%	N/A	N/A	N/A	N/A	0.6	6.25	N/A	6.85
PITTSBURGH	yes	100.00%	1	3	0.5	4.5	1.1	3.4	0.8	5.3
PRINCETON	yes	100.00%	4	9	1.3	14.3	5.8	16	1.5	23.3
PURDUE	yes	10.00%	0.1	0	0	0.1	0.1	3	0.07	3.17
QUEEN'S	yes	25.00%	0.25	2	N/A	2.25	U/A	U/A	N/A	U/A
RICE	no	N/A	N/A	N/A	N/A	N/A	0	3.5	1	4.5
ROCHESTER	yes	100.00%	2	2.9	1.6	6.5	2.1	5.7	2.3	10.1
RUTGERS	yes	50.00%	0.5	0	0	0.5	1.73	5.03	3.84	10.6
SASKATCHEWAN	yes	33.00%	N/A	4.9	N/A	4.9	0.25	5.5	N/A	5.75
SOUTH CAROLINA	no	N/A	N/A	N/A	N/A	N/A	0.1	2.5	2	4.6
SOUTHERN CALIFORNIA	yes	100.00%	1	3	1	5	2.25	4	2	8.25
SOUTHERN ILLINOIS	yes	100.00%	1	1	4.7	6.7	1.7	3.6	7.4	12.7
STANFORD	yes	100.00%	4.5	15.55	4.5	24.55	5.6	18.15	6.3	30.05
SUNY-ALBANY	yes	100.00%	2	0.8	1	3.8	2.25	3.3	2.3	7.85
SUNY-BUFFALO	yes	100.00%	3	0	4.8	7.8	6.3	5.2	12.6	24.1
SUNY-STONY BROOK	yes	80.00%	1	1	1	3	1	3	1	5
SYRACUSE	yes	100.00%	2	6	0	8	4	7.2	0	11.2
TEMPLE	no	N/A	0	0	0	0	0.25	3.25	2.5	6
TENNESSEE	yes	85.00%	0.85	5.5	0.75	7.1	0.85	5.9	0.95	7.7
TEXAS	yes	100.00%	11	15.4	1.1	27.5	14	30.1	1.4	45.5
TEXAS A&M	yes	25.00%	0.25	1	0.25	1.5	0.25	6.5	6.75	13.5
TORONTO	yes	100.00%	4	13.5	N/A	17.5	5	14.5	N/A	19.5
TULANE	no	N/A	N/A	N/A	N/A	N/A	0.4	2.5	7.3	10.2
UTAH	yes	100.00%	1	3	1	5	1	3	1	5
VANDERBILT	yes	100.00%	1	1.5	0	2.5	1.8	7.2	0.6	9.6
VIRGINIA	yes	100.00%	1	5.25	2.5	8.75	1.2	6	3.55	10.75
VPI & SU	yes	10.00%	0	6	5	11	0	6	6	12
WASHINGTON	yes	20.00%	0.2	3	0.35	3.55	0.55	12.6	1.7	14.85
WASHINGTON STATE	yes	10.00%	0.6	0.15	0	0.75	0.62	6.77	2.45	9.84
WASHINGTON U-ST. LOUIS	yes	100.00%	2	4	2	8	2	4	2	8
WATERLOO	yes	10.00%	0	0	0	0	0.3	7.5	0	7.8
WAYNE STATE	no	N/A	N/A	N/A	N/A	N/A	0.35	2.45	1.7	4.5
WISCONSIN	yes	30.00%	1.8	7.5	3.5	12.8	2	7.5	3.5	13
YALE	yes	100.00%	5.7	23.3	5.5	34.5	9.6	34.9	9.7	54.2
YORK	no	N/A	N/A	N/A	N/A	N/A	0.2	2.4	0.9	3.5
BOSTON PUBLIC LIBRARY	no	N/A	N/A	N/A	N/A	N/A	7	19	11	37
CANADA INST. FOR SCI TECH	no	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RESEARCH LIBS.	yes	25.00%	1	1	0	2	1.6	1.6	2.8	6
LIBRARY OF CONGRESS	yes	100.00%	58	61	4	123	70	64	0	134
LINDA HALL LIBRARY	yes	90.00%	1	1	0.75	2.75	1.2	1.3	0.75	3.25
NATL. AGRICULTURAL LIB.	yes	100.00%	N/A	N/A	N/A	N/A	1	0	0	1
NATL. LIBRARY OF CANADA	yes	100.00%	2	1	0.5	3.5	12.55	3.51	0.5	16.56
NATL. LIB. OF MEDICINE	yes	100.00%	6	8	2	16	7	8.5	2	17.5
NEW YORK PUB. LIBRARY	yes	100.00%	11	62	3	76	20	63	3	86
NEW YORK STATE LIBRARY	yes	100.00%	1.5	9.9	0.3	11.7	1.5	10.9	0.3	12.7
SMITHSONIAN INSTITUTION	yes	100.00%	1	7	0	8	3	8	0	11
UNIVERSITY LIBRARIES			135.24	428.03	164.69	727.96	217.24	815.43	386.66	1,419.33
NONUNIVERSITY LIBRARIES			81.5	150.9	10.55	242.95	124.85	179.81	20.35	325.01
ALL ARL LIBRARIES			216.74	578.93	175.24	970.91	342.09	995.24	407.01	1,744.34

Table II: EXPENDITURES

INSTITUTION	EXPENDITURES (in dollars)							
	Total Salaries & Wages (1)	Contract Conserv. (2)	Contract Binding (3)	Contract Preserv. Photocop. (4)	Contract Preserv. Microfilm. (5)	Other Contract Expend. (6)	Total Contract Expend. (7)	Supplies (8)
ALABAMA	$79,140	$0	$144,744	$0	$0	$0	$144,744	$19,906
ALBERTA	$331,786	$0	$127,589	U/A	U/A	$0	$127,589	$12,124
ARIZONA	$96,993	$15,384	$295,567	$0	$0	$0	$310,951	$4,000
ARIZONA STATE	$139,505	$13,216	$276,942	$0	$0	$0	$290,158	$43,677
BOSTON	$115,800	$0	$169,015	$0	$0	$0	$169,015	$15,000
BRIGHAM YOUNG	$248,795	$0	$146,449	$0	$1,066	$0	$147,515	$31,147
BRITISH COLUMBIA	$266,297	$8,660	$211,675	$170	$0	$9,015	$229,520	$4,258
BROWN	$269,351	N/A	$145,414	$1,177	$40,130	$970	$187,691	$21,198
CALIF.,BERKELEY	$1,717,005	$8,604	$779,411	$177,162	$357,739	$0	$1,322,916	$5,776
CALIF.,DAVIS	$178,180	N/A	$238,580	$6,119	$19,114	$880	$264,693	$32,329
CALIF.,IRVINE	$182,349	N/A	$220,425	$4,900	$5,420	$0	$230,745	$2,000
CALIF.,LOS ANGELES	$344,437	$58,140	$539,522	$16,198	$80,925	$0	$694,785	$86,369
CALIF.,RIVERSIDE	$95,175	$0	$167,555	$3,608	$4,869	$0	$176,032	$6,176
CALIF.,SAN DIEGO	$359,926	$0	$358,289	$4,315	$9,859	$0	$372,463	$18,067
CALIF.,SANTA BARBARA	$140,100	$2,750	$284,168	$2,172	$0	$0	$289,090	U/A
CASE WESTERN RESERVE	$111,926	$2,535	$96,717	$7,937	$0	$2,554	$109,743	$7,659
CHICAGO	$486,714	$33,213	$461,694	$2,602	$226,593	$0	$724,102	$13,120
CINCINNATI	$217,494	$2,210	$173,211	$0	$0	$0	$175,421	$8,167
COLORADO	$180,420	N/A	$155,685	N/A	N/A	$0	$155,685	U/A
COLORADO STATE	$252,745	$0	$115,700	$600	$0	$0	$116,300	$15,194
COLUMBIA	$923,256	$30,991	$600,074	$40,896	$218,835	$91,841	$982,637	$22,581
CONNECTICUT	$366,211	$10,092	$244,439	$0	$10,358	$100	$264,989	$26,205
CORNELL	$533,681	$12,643	$211,112	$5,532	$80,571	$1,800	$311,658	$106,785
DARTMOUTH	$101,000	$3,500	$108,537	N/A	$57,109	$0	$169,146	$1,500
DELAWARE	$146,005	$14,905	$176,956	$0	$0	$0	$191,861	$25,645
DUKE	$378,066	$3,172	$238,613	$0	$0	$0	$241,785	$19,095
EMORY	$203,658	N/A	$188,885	N/A	$45,797	$0	$234,682	$3,703
FLORIDA	$260,195	$3,787	$263,142	$0	$31,462	$0	$298,391	$17,000
FLORIDA STATE	$124,868	$2,154	$217,642	$0	$4,253	$0	$224,049	$5,900
GEORGETOWN	$206,850	N/A	$197,788	N/A	$4,420	$0	$202,208	$15,119
GEORGIA	$292,844	N/A	$246,980	N/A	N/A	$0	$246,980	$26,625
GEORGIA TECH	*	$0	$70,607	$0	$0	$0	$70,607	$3,046
GUELPH	$95,263	$6,928	$92,990	$866	N/A	$0	$100,784	$21,651
HARVARD	$1,555,367	$138,302	$968,629	$46,772	$271,442	$20,718	$1,445,863	$86,433
HAWAII	$296,292	$8,685	$222,142	N/A	$12,132	$0	$242,959	$51,656
HOUSTON	$83,154	N/A	$84,999	N/A	N/A	$0	$84,999	$868
HOWARD	N/A	N/A	$145,090	N/A	N/A	$0	$145,090	N/A
ILLINOIS, CHICAGO	$87,300	$0	$155,866	$0	$0	$0	$155,866	$10,000
ILLINOIS, URBANA	$239,905	$11,810	$242,440	$0	$0	$0	$254,250	$46,096
INDIANA	$267,863	$0	$301,760	$0	$12,840	$413	$315,013	$11,868
IOWA	$303,460	N/A	$187,352	N/A	$8,675	$0	$196,027	$2,410
IOWA STATE	$170,314	$4,463	$165,006	$0	$99	$0	$169,568	$15,745
JOHNS HOPKINS	$238,559	$0	$150,782	$0	$10,000	$0	$160,782	$3,819
KANSAS	$236,067	$0	$194,287	$0	$0	$0	$194,287	$10,290
KENT STATE	$82,302	$810	$80,022	$0	$200	$0	$81,032	$17,907
KENTUCKY	$353,393	$1,727	$121,288	$0	$0	$0	$121,288	$38,740
LAVAL	$239,991	N/A	$18,299	N/A	$30	$0	$18,329	$47,928
LOUISIANA STATE	$155,039	N/A	$85,943	N/A	N/A	$0	$85,943	$73,806
MCGILL	*	$0	$164,861	$0	$0	$0	$164,861	$1,732
MCMASTER	$148,646	N/A	$103,923	N/A	$6,866	$0	$110,789	$36,208
MANITOBA	$52,866	N/A	$139,342	N/A	N/A	$0	$139,342	$4,738
MARYLAND	$210,150	$10,000	$204,581	N/A	$40,000	$0	$254,581	N/A
MASSACHUSETTS	$79,089	N/A	$143,596	$0	$603	$0	$144,199	$5,272
MIT	$323,950	$3,402	$155,259	$0	$0	$0	$158,661	$24,408
MIAMI	$210,723	$0	$140,677	$0	$4,827	$0	$145,504	$17,397
MICHIGAN	$562,500	$13,755	$267,995	$2,740	$101,353	$0	$385,843	$61,680
MICHIGAN STATE	$231,075	$0	$204,097	$0	$14,761	$0	$218,858	$7,890
MINNESOTA	$211,965	$16,120	$532,230	$41,000	$39,594	$7,500	$636,444	$934
MISSOURI	$105,186	N/A	$189,091	N/A	N/A	$0	$189,091	$2,986
NEBRASKA	$208,894	$1,000	$128,176	$0	$399	$0	$129,575	$18,198
NEW MEXICO	$117,701	$0	$179,306	$0	$1,947	$0	$181,253	$12,209
NEW YORK	$362,500	$20,407	$325,214	$8,775	$111,184	$14,916	$480,496	$8,888
NORTH CAROLINA	$395,253	$0	$240,565	$0	$0	$0	$240,565	$44,126
NORTH CAROLINA STATE	$98,063	$0	$129,967	$0	$0	$0	$129,967	$6,045

Table II: EXPENDITURES

INSTITUTION	Equipment (9)	Total Preserv. Expend. (10)	Total Preserv. Exp. from External Sources (11)	Total Library Expend. (from ARL Statistics) (12)	Pres. as % of Total Library Expend. (13)	Total Materials Expend. (from ARL Statistics) (14)	Pres. as % of Total Materials Expend. (15)
ALABAMA	$7,287	$251,077	$0	$7,759,687	3.2%	$3,315,919	7.6%
ALBERTA	$563	$472,062	$0	$15,655,603	3.0%	$4,290,665	11.0%
ARIZONA	$725	$412,669	$0	$14,708,494	2.8%	$6,073,376	6.8%
ARIZONA STATE	$35,829	$509,169	$0	$15,548,558	3.3%	$6,408,284	7.9%
BOSTON	$0	$299,815	$0	$10,784,047	2.8%	$3,312,540	9.1%
BRIGHAM YOUNG	$19,530	$446,987	$0	$10,160,063	4.4%	$3,826,648	11.7%
BRITISH COLUMBIA	$924	$500,999	$0	$18,607,619	2.7%	$5,346,273	9.4%
BROWN	N/A	$478,240	$88,136	$11,144,301	4.3%	$3,508,128	13.6%
CALIF.,BERKELEY	$7,980	$3,053,677	$615,760	$32,723,415	9.3%	$8,219,006	37.2%
CALIF.,DAVIS	$0	$475,202	$9,451	$16,307,264	2.9%	$5,721,446	8.3%
CALIF.,IRVINE	$1,000	$416,094	$0	$12,074,992	3.4%	$3,788,280	11.0%
CALIF.,LOS ANGELES	$1,900	$1,127,491	$51,051	$31,926,086	3.5%	$8,355,854	13.5%
CALIF.,RIVERSIDE	$2,261	$279,644	$6,000	$7,562,642	3.7%	$2,626,639	10.6%
CALIF.,SAN DIEGO	$6,054	$756,510	$7,854	$16,286,677	4.6%	$4,521,659	16.7%
CALIF.,SANTA BARBARA	U/A	$429,190	$0	$12,451,601	3.4%	$3,707,084	11.6%
CASE WESTERN RESERVE	$0	$229,328	$462	$7,841,451	2.9%	$2,785,073	8.2%
CHICAGO	$0	$1,223,936	$222,209	$16,083,176	7.6%	$5,295,072	23.1%
CINCINNATI	$0	$401,082	$0	$12,475,557	3.2%	$4,631,643	8.7%
COLORADO	U/A	$336,105	$0	$11,372,486	3.0%	$4,717,514	7.1%
COLORADO STATE	$927	$385,166	$0	$6,707,827	5.7%	$2,640,751	14.6%
COLUMBIA	$6,884	$1,935,358	$499,408	$25,396,688	7.6%	$7,531,880	25.7%
CONNECTICUT	$14,510	$671,915	$5,000	$13,651,521	4.9%	$4,282,446	15.7%
CORNELL	$11,786	$963,910	$514,604	$22,872,682	4.2%	$7,175,388	13.4%
DARTMOUTH	$0	$271,646	$57,109	$8,973,917	3.0%	$3,285,935	8.3%
DELAWARE	$957	$364,468	$242	$9,492,250	3.8%	$4,122,166	8.8%
DUKE	$8,116	$647,062	$0	$14,919,597	4.3%	$5,211,822	12.4%
EMORY	$3,544	$445,587	$88,505	$13,545,980	3.3%	$5,037,406	8.8%
FLORIDA	$1,500	$577,086	$36,334	$15,028,682	3.8%	$5,318,920	10.8%
FLORIDA STATE	$0	$354,817	$0	$8,891,332	4.0%	$4,102,372	8.6%
GEORGETOWN	$0	$424,177	$35,000	$12,489,462	3.4%	$4,151,378	10.2%
GEORGIA	$10,000	$576,449	$43,822	$12,310,976	4.7%	$4,881,987	11.8%
GEORGIA TECH	$0	$73,653	$0	$5,520,979	1.3%	$2,127,828	3.5%
GUELPH	$10,392	$228,090	$866	$6,703,676	3.4%	$2,204,044	10.3%
HARVARD	$83,523	$3,171,186	$451,179	$50,249,192	6.3%	$11,865,941	26.7%
HAWAII	$12,385	$603,292	$12,132	$10,346,925	5.8%	$3,467,564	17.4%
HOUSTON	N/A	$169,021	$0	$6,914,297	2.4%	$2,720,143	6.2%
HOWARD	N/A	$145,090	$0	$10,695,404	1.4%	$4,004,317	3.6%
ILLINOIS, CHICAGO	$0	$253,166	$0	$11,806,890	2.1%	$4,052,285	6.2%
ILLINOIS, URBANA	$308	$540,559	$2,864	$19,482,434	2.8%	$6,142,131	8.8%
INDIANA	$18,730	$613,474	$14,581	$19,931,037	3.1%	$6,268,715	9.8%
IOWA	$3,394	$505,291	$42,675	$12,653,125	4.0%	$5,265,740	9.6%
IOWA STATE	$0	$355,627	$0	$9,882,345	3.6%	$3,537,321	10.1%
JOHNS HOPKINS	$5,275	$408,435	$0	$17,866,060	2.3%	$5,153,657	7.9%
KANSAS	$0	$440,644	$0	$12,132,493	3.6%	$4,540,829	9.7%
KENT STATE	$0	$181,241	$0	$8,191,726	2.2%	$2,422,414	7.5%
KENTUCKY	$11,570	$524,991	$91,635	$9,646,307	5.4%	$3,589,769	14.6%
LAVAL	N/A	$306,248	$0	$12,223,185	2.5%	$3,050,228	10.0%
LOUISIANA STATE	$3,000	$317,788	$0	$8,756,965	3.6%	$3,303,072	9.6%
MCGILL	$0	$166,593	$0	$14,684,399	1.1%	$4,199,021	4.0%
MCMASTER	$0	$295,643	$0	$9,972,287	3.0%	$4,064,344	7.3%
MANITOBA	$23,310	$220,256	$23,310	$9,826,152	2.2%	$2,599,320	8.5%
MARYLAND	N/A	$464,731	$0	$15,667,442	3.0%	$4,879,524	9.5%
MASSACHUSETTS	$0	$228,560	$0	$8,053,151	2.8%	$2,511,215	9.1%
MIT	$1,750	$508,769	$97,747	$10,513,389	4.8%	$3,310,354	15.4%
MIAMI	$0	$373,624	$0	$10,478,437	3.6%	$3,788,226	9.9%
MICHIGAN	$10,483	$1,020,506	$175,888	$25,759,418	4.0%	$8,773,596	11.6%
MICHIGAN STATE	$880	$458,703	$14,761	$12,931,442	3.5%	$4,254,259	10.8%
MINNESOTA	$120	$849,463	$57,057	$24,386,140	3.5%	$7,952,820	10.7%
MISSOURI	N/A	$297,263	$0	$9,100,508	3.3%	$3,507,938	8.5%
NEBRASKA	$4,650	$361,317	$1,689	$8,854,221	4.1%	$3,544,196	10.2%
NEW MEXICO	$0	$311,163	$0	$12,160,872	2.6%	$3,927,931	7.9%
NEW YORK	$237	$852,121	$220,742	$19,129,172	4.5%	$6,319,788	13.5%
NORTH CAROLINA	$2,733	$682,677	$79,359	$15,435,157	4.4%	$5,273,832	12.9%
NORTH CAROLINA STATE	$0	$234,075	$0	$8,647,259	2.7%	$3,199,698	7.3%

Table II: EXPENDITURES

INSTITUTION	EXPENDITURES (in dollars)							
	Total Salaries & Wages (1)	Contract Conserv. (2)	Contract Binding (3)	Contract Preserv. Photocop. (4)	Contract Preserv. Microfilm. (5)	Other Contract Expend. (6)	Total Contract Expend. (7)	Supplies (8)
NORTHWESTERN	$371,467	$0	$218,571	$3,314	$146,709	$0	$368,594	$36,447
NOTRE DAME	$76,689	$1,075	$115,869	$0	$2,492	$2,892	$122,328	$3,200
OHIO STATE	$492,740	$0	$288,917	$3,368	$23,734	$3,016	$319,035	$34,488
OKLAHOMA	*	N/A	$82,364	$400	N/A	$0	$82,764	$4,042
OKLAHOMA STATE	$78,341	$0	$79,586	$0	$0	$600	$80,186	$3,082
OREGON	$212,875	$0	$140,353	$0	$1,400	$0	$141,753	$34,000
PENNSYLVANIA	$347,212	$8,596	$415,832	$0	$2,512	$38,892	$465,832	$8,844
PENNSYLVANIA STATE	$141,360	$0	$480,735	$0	$1,970	$0	$482,705	U/A
PITTSBURGH	$112,070	$0	$183,892	$0	$9,909	$0	$193,801	$6,000
PRINCETON	$379,325	$3,080	$400,953	$2,944	$97,380	$0	$504,357	$13,905
PURDUE	*	$0	$133,285	$0	$0	$0	$133,285	$3,500
QUEEN'S	$60,102	N/A	$143,585	N/A	N/A	$0	$143,585	$4,330
RICE	$70,550	$0	$53,738	$0	$0	$0	$53,738	$1,650
ROCHESTER	$149,911	$15,361	$132,668	$3,482	$3,500	$7,582	$162,593	$16,833
RUTGERS	$246,396	$0	$400,847	$0	$0	$0	$400,847	$9,109
SASKATCHEWAN	$125,480	$3,801	$114,907	N/A	N/A	$0	$118,708	$4,470
SOUTH CAROLINA	$50,660	N/A	$133,334	N/A	$9,565	$0	$142,899	$9,286
SOUTHERN CALIFORNIA	$139,417	$0	$166,259	$0	$15,125	$0	$181,384	$11,981
SOUTHERN ILLINOIS	$162,643	N/A	$152,296	N/A	N/A	$0	$152,296	$19,736
STANFORD	$803,623	$4,876	$358,168	$1,393	$207,079	$0	$571,516	$89,006
SUNY-ALBANY	$106,652	$5,000	$76,892	$1,373	$15,493	$2,525	$101,283	$7,869
SUNY-BUFFALO	$431,537	$0	$155,600	$0	$2,256	$6,245	$164,101	$18,367
SUNY-STONY BROOK	$109,572	$11,628	$97,496	N/A	N/A	$0	$109,124	$9,394
SYRACUSE	$211,782	$51,350	$87,220	N/A	$0	$0	$138,570	$13,235
TEMPLE	$93,000	$1,680	$160,898	$0	$0	$0	$162,578	$6,000
TENNESSEE	$166,640	$0	$140,768	$0	$0	$0	$140,768	$1,670
TEXAS	$678,204	$2,500	$184,452	$294	$44,578	$0	$231,824	$73,668
TEXAS A&M	$149,604	$0	$124,755	$0	$0	$0	$124,755	$12,677
TORONTO	$449,497	U/A	$282,655	N/A	$13,284	$0	$295,939	$30,134
TULANE	$64,820	N/A	$114,346	N/A	$668	$0	$115,014	$7,924
UTAH	$88,600	$0	$110,620	$0	$0	$0	$110,620	$10,373
VANDERBILT	$147,694	$0	$174,931	$0	$1,820	$0	$176,751	$8,218
VIRGINIA	$168,832	$0	$258,635	$4,899	U/A	$0	$263,534	$4,197
VPI & SU	$105,313	$0	$163,109	$0	$489	$0	$163,598	$4,000
WASHINGTON	$268,048	$2,047	$339,958	$353	$10,218	$15,000	$367,576	$27,539
WASHINGTON STATE	U/A	$387	$132,885	N/A	$785	$281	$134,338	$3,010
WASHINGTON U-ST. LOUIS	$111,745	$0	$143,225	$14,967	$0	$0	$158,192	$26,161
WATERLOO	$172,383	$1,462	$89,465	$0	$0	$0	$90,927	$3,486
WAYNE STATE	$80,442	N/A	$166,507	N/A	N/A	$0	$166,507	$9,500
WISCONSIN	$265,034	$0	$205,845	$0	$0	$4,611	$210,456	$25,113
YALE	$857,927	$16,908	$415,800	$2,915	$251,755	$0	$687,378	$35,657
YORK	*	$0	$188,571	N/A	N/A	$0	$188,571	$1,609
BOSTON PUBLIC LIBRARY	$742,428	$11,230	$55,036	$0	$56,000	$0	$122,266	$12,989
CAN. INST. FOR SCITECH	N/A	N/A	$33,132	N/A	N/A	$0	$33,132	N/A
CENTER FOR RES. LIB.	$79,380	N/A	$0	N/A	$222,663	$0	$222,663	$1,500
LIBRARY OF CONGRESS	$3,643,874	$100,730	$1,000,000	$0	$1,193,749	$843,457	$3,137,936	$647,677
LINDA HALL LIBRARY	*	$1,854	$75,000	$674	$0	$397	$77,925	U/A
NATL. AGRI. LIBRARY	*	$0	$148,775	$0	$0	$0	$148,775	$974
NATL. LIBRARY OF CAN.	$534,180	N/A	$48,670	N/A	$242,487	$5,115	$296,272	$247,572
NATL. LIB. OF MEDICINE	$504,811	$63,864	$220,000	N/A	$211,374	$379,835	$875,073	$6,687
NEW YORK PUB. LIBRARY	$2,084,396	$190,746	$450,340	$15,032	$99,367	$35,390	$790,875	$186,613
NEW YORK STATE LIBRARY	$335,801	$0	$36,000	$0	$34,084	$0	$70,084	$34,888
SMITHSONIAN INST.	$259,871	$0	$90,000	$0	$0	$0	$90,000	$7,218
UNIVERSITY LIBRARIES	$26,063,241	$593,116	$22,349,694	$413,243	$2,698,193	$232,351	$26,284,870	$1,965,009
NONUNIVERSITY LIBRARIES	$8,254,867	$368,424	$2,156,953	$15,706	$2,059,724	$1,264,194	$5,865,001	$1,146,118
ALL ARL LIBRARIES	$34,318,108	$961,540	$24,506,647	$428,949	$4,757,917	$1,496,545	$32,149,871	$3,111,127

Table II: EXPENDITURES

INSTITUTION	Equipment (9)	Total Preserv. Expend. (10)	Total Preserv. Exp. from External Sources (11)	Total Library Expend. (from ARL Statistics) (12)	Pres. as % of Total Library Expend. (13)	Total Materials Expend. (from ARL Statistics) (14)	Pres. as % of Total Materials Expend. (15)
NORTHWESTERN	$856	$777,364	$35,027	$14,262,619	5.5%	$4,684,583	16.6%
NOTRE DAME	$8,778	$210,995	$0	$9,039,620	2.3%	$3,669,338	5.8%
OHIO STATE	$0	$846,263	$20,115	$17,020,796	5.0%	$5,617,786	15.1%
OKLAHOMA	$0	$86,806	$0	$7,558,792	1.1%	$3,100,546	2.8%
OKLAHOMA STATE	$0	$161,609	$600	$7,079,749	2.3%	$2,472,184	6.5%
OREGON	$1,183	$389,811	$2,100	$8,948,119	4.4%	$3,631,332	10.7%
PENNSYLVANIA	$0	$821,888	$28,027	$17,640,959	4.7%	$5,285,553	15.5%
PENNSYLVANIA STATE	$400	$624,465	$929	$18,505,042	3.4%	$6,419,710	9.7%
PITTSBURGH	$0	$311,871	$0	$13,483,938	2.3%	$5,057,994	6.2%
PRINCETON	$0	$897,587	$215,796	$18,748,412	4.8%	$6,379,297	14.1%
PURDUE	$0	$136,785	$0	$10,165,748	1.3%	$3,783,087	3.6%
QUEEN'S	N/A	$208,017	$0	$10,155,316	2.0%	$3,662,136	5.7%
RICE	$0	$125,938	$0	$6,407,061	2.0%	$2,801,926	4.5%
ROCHESTER	$12,315	$341,652	$96,203	$8,839,303	3.9%	$3,626,288	9.4%
RUTGERS	$1,085	$657,437	$22,568	$22,592,499	2.9%	$6,706,900	9.8%
SASKATCHEWAN	N/A	$248,658	$0	$8,631,855	2.9%	$3,492,783	7.1%
SOUTH CAROLINA	N/A	$202,845	$0	$8,484,026	2.4%	$3,188,425	6.4%
SOUTHERN CALIFORNIA	$2,366	$335,148	$0	$15,213,319	2.2%	$5,276,593	6.4%
SOUTHERN ILLINOIS	$6,851	$341,526	$12,987	$8,472,995	4.0%	$3,107,324	11.0%
STANFORD	$48,801	$1,512,946	$259,263	$31,697,862	4.8%	$8,454,160	17.9%
SUNY-ALBANY	$9,967	$225,771	$63,283	$8,454,102	2.7%	$3,324,677	6.8%
SUNY-BUFFALO	$3,488	$617,493	$90,000	$12,306,444	5.0%	$3,868,613	16.0%
SUNY-STONY BROOK	$1,000	$229,090	$11,628	$9,542,641	2.4%	$3,810,302	6.0%
SYRACUSE	$21,155	$384,742	$141,000	$9,717,897	4.0%	$3,537,209	10.9%
TEMPLE	$0	$261,578	$13,500	$9,794,213	2.7%	$3,482,723	7.5%
TENNESSEE	$0	$309,078	$0	$9,113,296	3.4%	$3,635,202	8.5%
TEXAS	$1,200	$984,896	$108,915	$19,447,403	5.1%	$6,052,477	16.3%
TEXAS A&M	$0	$287,036	$0	$11,531,165	2.5%	$4,306,013	6.7%
TORONTO	$4,561	$780,131	$13,284	$28,430,815	2.7%	$7,809,775	10.0%
TULANE	N/A	$187,758	$3,834	$8,243,450	2.3%	$3,732,112	5.0%
UTAH	$0	$209,593	$0	$7,833,002	2.7%	$2,589,808	8.1%
VANDERBILT	$350	$333,013	$0	$11,901,787	2.8%	$3,938,840	8.5%
VIRGINIA	$0	$436,563	$0	$15,185,994	2.9%	$5,784,342	7.5%
VPI & SU	$0	$272,911	$0	$9,149,801	3.0%	$3,887,002	7.0%
WASHINGTON	$0	$663,163	$0	$22,379,841	3.0%	$7,090,489	9.4%
WASHINGTON STATE	$292	U/A	$0	$8,619,267	U/A	$3,009,477	U/A
WASHINGTON U-ST. LOUIS	$0	$296,098	$24,914	$12,316,487	2.4%	$4,620,220	6.4%
WATERLOO	$0	$266,796	$0	$9,361,047	2.9%	$3,416,821	7.8%
WAYNE STATE	$16,600	$273,049	$0	$11,990,794	2.3%	$4,288,305	6.4%
WISCONSIN	$1,332	$501,935	$64,040	$23,020,227	2.2%	$7,069,078	7.1%
YALE	$0	$1,580,962	$364,000	$30,151,200	5.2%	$9,704,800	16.3%
YORK	N/A	$190,180	$0	$11,953,108	1.6%	$3,369,571	5.6%
BOSTON PUBLIC LIBRARY	$7,011	$884,694	$131,567	$28,421,160	3.1%	$6,430,813	13.8%
CAN. INST. FOR SCITECH	N/A	$33,132	$0	$22,198,937	0.1%	$7,273,834	0.5%
CENTER FOR RES. LIB.	$0	$303,543	$21,929	$2,900,444	10.5%	$841,807	36.1%
LIBRARY OF CONGRESS	$988,030	$8,417,517	$111,749	$307,102,000	2.7%	$9,892,777	85.1%
LINDA HALL LIBRARY	U/A	$77,925	$0	$3,548,000	2.2%	$1,552,000	5.0%
NATL. AGRI. LIBRARY	$0	$149,749	$0	$16,798,000	0.9%	$2,125,000	7.0%
NATL. LIBRARY OF CAN.	$15,967	$1,093,991	$34,965	$31,585,432	3.5%	$3,108,645	35.2%
NATL. LIB. OF MEDICINE	$13,515	$1,400,086	$0	$23,670,336	5.9%	$3,943,336	35.5%
NEW YORK PUB. LIBRARY	$43,601	$3,105,485	$1,380,706	$38,149,640	8.1%	$7,085,720	43.8%
NEW YORK STATE LIBRARY	$0	$440,773	$24,469	$9,960,650	4.4%	$2,668,506	16.5%
SMITHSONIAN INST.	$29,840	$386,929	$0	$5,606,502	6.9%	$1,196,218	32.3%
UNIVERSITY LIBRARIES	$477,597	$54,411,625	$5,159,445	$1,457,749,130		$486,761,415	
NONUNIVERSITY LIBRARIES	$1,097,964	$16,293,824	$1,705,385	$489,941,101		$46,118,656	
ALL ARL LIBRARIES	$1,575,561	$70,705,449	$6,864,830	$1,947,690,231		$532,880,071	

Table III: PRESERVATION TREATMENT

INSTITUTION	CONSERVATION TREATMENT							
	Volumes: Level 1 Treatment Contract (1)	Volumes: Level 1 Treatment In-House (2)	Volumes: Level 2 Treatment Contract (3)	Volumes: Level 2 Treatment In-House (4)	Volumes: Level 3 Treatment Contract (5)	Volumes: Level 3 Treatment In-House (6)	Total Volumes Treated Contract (7)	Total Volumes Treated In-House (8)
ALABAMA	0	4,024	0	0	0	0	0	4,024
ALBERTA	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
ARIZONA	0	6,780	0	3,651	0	0	0	10,431
ARIZONA STATE	0	12,169	0	1,484	19	78	19	13,731
BOSTON	0	1,932	0	326	0	291	0	2,549
BRIGHAM YOUNG	0	2,838	0	5,876	0	731	0	9,445
BRITISH COLUMBIA	100	8,146	40	1,838	80	45	220	10,029
BROWN	N/A	4,898	N/A	801	N/A	75	N/A	5,774
CALIF.,BERKELEY	N/A	U/A	N/A	8,676	N/A	27	N/A	8,703
CALIF.,DAVIS	N/A	1,061	N/A	1,104	N/A	48	N/A	2,213
CALIF.,IRVINE	N/A	1,086	N/A	3,259	N/A	0	N/A	4,345
CALIF.,LOS ANGELES	0	4,806	0	2,962	200	3	200	7,771
CALIF.,RIVERSIDE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CALIF.,SAN DIEGO	0	6,991	0	740	0	0	0	7,731
CALIF.,SANTA BARBARA	0	12,691	0	U/A	0	U/A	0	12,691
CASE WESTERN RESERVE	0	1,026	0	529	0	137	0	1,692
CHICAGO	0	1,519	134	560	95	0	229	2,079
CINCINNATI	N/A	2,017	N/A	1,841	3	201	3	4,059
COLORADO	0	2,436	0	466	22	48	22	2,950
COLORADO STATE	0	4,699	0	2,144	0	18	0	6,861
COLUMBIA	0	2,805	202	2,388	2	1	204	5,194
CONNECTICUT	0	8,978	0	3,494	0	547	0	13,019
CORNELL	0	36,330	0	2,010	0	138	0	38,478
DARTMOUTH	0	58	14	41	21	17	35	116
DELAWARE	0	3,552	6	92	13	1	19	3,645
DUKE	N/A	5,622	313	6,813	N/A	132	313	12,567
EMORY	N/A	2,709	N/A	1,714	N/A	0	N/A	4,423
FLORIDA	0	5,362	0	1,444	0	16	0	6,822
FLORIDA STATE	2,700	667	0	131	25	0	2,725	798
GEORGETOWN	N/A	1,629	N/A	680	N/A	N/A	N/A	2,309
GEORGIA	N/A	39	N/A	1	N/A	0	N/A	40
GEORGIA TECH	0	150	0	0	0	0	0	150
GUELPH	25	2,000	60	N/A	125	N/A	210	2,000
HARVARD	733	10,652	483	5,356	552	132	1,768	16,140
HAWAII	N/A	N/A	N/A	14,881	N/A	163	N/A	15,044
HOUSTON	N/A	2,967	N/A	1,272	N/A	N/A	N/A	4,239
HOWARD	0	0	0	0	0	0	0	0
ILLINOIS, CHICAGO	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
ILLINOIS, URBANA	0	15,273	0	10,040	21	684	21	25,997
INDIANA	0	6,621	0	5,978	0	258	0	12,857
IOWA	N/A	1,625	N/A	2,497	N/A	66	N/A	4,188
IOWA STATE	0	1,432	0	2,674	9	0	9	4,106
JOHNS HOPKINS	0	17,439	0	1,620	0	310	0	19,369
KANSAS	0	4,926	0	2,562	0	80	0	7,568
KENT STATE	0	5,132	0	2,555	2	0	2	7,687
KENTUCKY	0	2,866	0	4,321	0	1	0	7,188
LAVAL	0	7,862	0	12,436	0	4	0	20,302
LOUISIANA STATE	0	13,848	30	515	0	0	30	14,363
MCGILL	0	0	0	0	0	0	0	0
MCMASTER	N/A	N/A	N/A	991	N/A	1,064	N/A	2,055
MANITOBA	N/A	3,851	N/A	3,379	N/A	N/A	N/A	7,230
MARYLAND	0	5,090	0	2,701	31	0	31	7,791
MASSACHUSETTS	N/A	488	N/A	93	44	6	44	587
MIT	0	1,395	0	1,260	0	13	0	2,668
MIAMI	0	5,419	0	1,109	0	0	0	6,528
MICHIGAN	0	14,675	0	696	0	144	0	15,515
MICHIGAN STATE	0	8,152	0	1,663	0	0	0	9,815
MINNESOTA	132	90	0	571	0	50	132	711
MISSOURI	N/A	4,062	N/A	2,390	N/A	0	N/A	6,452
NEBRASKA	0	769	0	5,703	0	0	0	6,472
NEW MEXICO	0	4,171	0	4,945	0	2	0	9,118
NEW YORK	0	5,952	501	3,870	1	11	502	9,833
NORTH CAROLINA	0	232	0	4,924	0	3	0	5,159
NORTH CAROLINA STATE	0	11,141	0	826	0	127	0	12,094

Table III: PRESERVATION TREATMENT

INSTITUTION	CONSERVATION TREATMENT						BINDING	
	Sheets Treated Contract (9)	Sheets Treated In-House (10)	Non-paper Items Treated Contract (11)	Non-paper Items Treated In-House (12)	Protective Enclosures Constructed Contract (13)	Protective Enclosures Constructed In-House (14)	Volumes Bound Contract (15)	Volumes Bound In-House (16)
ALABAMA	0	500	0	500	0	0	11,784	0
ALBERTA	U/A	U/A	N/A	N/A	U/A	U/A	21,305	N/A
ARIZONA	0	350	0	0	0	2,331	29,568	0
ARIZONA STATE	201	0	0	1,275	39	23	41,572	0
BOSTON	0	0	0	0	0	375	26,342	0
BRIGHAM YOUNG	0	46	0	0	20	175	20,631	0
BRITISH COLUMBIA	10	405	15	9,434	7,691	1,300	34,737	3
BROWN	N/A	801	N/A	N/A	N/A	541	20,966	535
CALIF.,BERKELEY	N/A	1,104	N/A	6	1,070	12,461	61,162	N/A
CALIF.,DAVIS	N/A	7	N/A	0	N/A	26	31,062	N/A
CALIF.,IRVINE	N/A	N/A	N/A	N/A	283	0	17,636	N/A
CALIF.,LOS ANGELES	5	82	112	26,351	644	15	44,238	0
CALIF.,RIVERSIDE	N/A	N/A	N/A	N/A	65	0	17,521	N/A
CALIF.,SAN DIEGO	0	8,400	0	168	0	292	38,650	1,786
CALIF.,SANTA BARBARA	0	0	0	0	120	0	24,889	10,242
CASE WESTERN RESERVE	0	172	0	0	294	25	7,498	113
CHICAGO	620	281	0	0	39	89	87,772	0
CINCINNATI	50	222	N/A	N/A	4	892	26,131	N/A
COLORADO	0	1	0	0	241	25	29,275	2,168
COLORADO STATE	0	395	0	0	0	15	15,348	0
COLUMBIA	1,001	1,573	361	0	397	1	78,898	0
CONNECTICUT	0	507	0	760	629	228	29,643	0
CORNELL	477	1,700	0	0	0	808	29,605	0
DARTMOUTH	4	265	8	23	31	16	10,124	11,797
DELAWARE	792	212	0	180	147	404	25,764	0
DUKE	N/A	11,669	N/A	500	N/A	3,383	40,475	630
EMORY	N/A	101	N/A	U/A	55	898	23,832	N/A
FLORIDA	0	302	0	0	140	2,447	33,608	4,998
FLORIDA STATE	0	0	0	0	13	11	28,381	0
GEORGETOWN	N/A	10	N/A	1,200	N/A	N/A	22,183	N/A
GEORGIA	N/A	131,044	N/A	453	N/A	56	42,066	50
GEORGIA TECH	0	0	0	0	0	0	10,135	0
GUELPH	20	300	N/A	2,500	10	N/A	20,000	N/A
HARVARD	1,679	6,004	2,232	15,827	1,805	2,049	92,674	0
HAWAII	N/A	N/A	N/A	N/A	N/A	97	N/A	45
HOUSTON	N/A	N/A	N/A	N/A	9	22	13,484	2,316
HOWARD	0	0	0	0	0	0	15,316	0
ILLINOIS, CHICAGO	U/A	U/A	0	0	0	U/A	15,000	11,000
ILLINOIS, URBANA	N/A	1,559	N/A	99	360	820	41,175	0
INDIANA	0	1,103	0	2	441	1,848	52,322	N/A
IOWA	N/A	15	N/A	0	137	29	24,378	1,489
IOWA STATE	0	839	0	41	N/A	122	20,915	N/A
JOHNS HOPKINS	0	22	0	0	0	1,801	10,523	10,567
KANSAS	0	99,014	0	70,000	201	772	32,975	0
KENT STATE	0	U/A	0	U/A	0	1,152	11,842	U/A
KENTUCKY	0	344	0	500	181	677	15,146	0
LAVAL	0	N/A	0	N/A	0	N/A	1,577	13,772
LOUISIANA STATE	0	0	0	1,865	0	1,631	11,768	0
MCGILL	0	0	0	0	0	0	26,191	0
MCMASTER	N/A	1,005	N/A	26	N/A	1,004	13,362	1,300
MANITOBA	N/A	804	N/A	N/A	N/A	N/A	13,888	N/A
MARYLAND	259	0	14	0	0	429	24,376	0
MASSACHUSETTS	595	100	1,471	100	39	50	23,694	N/A
MIT	0	0	0	0	0	60	18,977	0
MIAMI	0	50	75	0	0	316	15,020	0
MICHIGAN	0	797	0	1,286	140	955	42,771	0
MICHIGAN STATE	0	6	0	307	0	0	38,850	0
MINNESOTA	26	1,005	950	4,000	293	300	47,255	540
MISSOURI	N/A	N/A	N/A	N/A	N/A	N/A	18,953	N/A
NEBRASKA	N/A	N/A	N/A	N/A	170	624	20,391	N/A
NEW MEXICO	0	326	0	93	0	669	24,285	735
NEW YORK	0	110	2,032	0	15	89	31,746	25
NORTH CAROLINA	0	692	0	1,459	573	2,835	46,018	650
NORTH CAROLINA STATE	0	0	0	0	0	0	19,434	0

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Table III: PRESERVATION TREATMENT

INSTITUTION	MASS DEACIDIFICATION TREATMENT				PRESERVATION PHOTOCOPYING	
	Bound Vols. & Pamphlets Mass Deacid. Contract (17)	Bound Vols. & Pamphlets Mass Deacid. In-House (18)	Linear Feet of Manuscripts Mass Deacid. Contract (19)	Linear Feet of Manuscripts Mass Deacid. In-House (20)	Entire Item Contract (21)	Entire Item In-House (22)
ALABAMA	0	0	0	0	100	0
ALBERTA	N/A	N/A	N/A	N/A	0	U/A
ARIZONA	0	0	0	0	0	25
ARIZONA STATE	0	0	0	0	0	0
BOSTON	0	0	0	0	0	0
BRIGHAM YOUNG	0	0	0	0	0	91
BRITISH COLUMBIA	N/A	N/A	N/A	N/A	5	21
BROWN	N/A	N/A	N/A	N/A	19	30
CALIF.,BERKELEY	N/A	N/A	N/A	N/A	1,705	N/A
CALIF.,DAVIS	N/A	N/A	N/A	N/A	80	N/A
CALIF.,IRVINE	N/A	N/A	N/A	N/A	51	N/A
CALIF.,LOS ANGELES	0	0	0	0	198	0
CALIF.,RIVERSIDE	N/A	N/A	N/A	N/A	57	0
CALIF.,SAN DIEGO	0	0	0	0	79	2
CALIF.,SANTA BARBARA	0	0	0	0	0	0
CASE WESTERN RESERVE	200	0	0	0	106	47
CHICAGO	0	0	0	0	46	0
CINCINNATI	N/A	N/A	N/A	N/A	N/A	15
COLORADO	N/A	N/A	N/A	N/A	0	1
COLORADO STATE	0	0	0	0	11	0
COLUMBIA	0	0	0	0	335	0
CONNECTICUT	441	0	0	0	0	67
CORNELL	0	853	0	0	20	119
DARTMOUTH	0	0	0	0	0	17
DELAWARE	100	0	0	0	0	5
DUKE	250	N/A	N/A	N/A	N/A	N/A
EMORY	N/A	N/A	N/A	N/A	N/A	61
FLORIDA	0	0	0	0	0	97
FLORIDA STATE	0	0	0	0	0	0
GEORGETOWN	N/A	N/A	N/A	N/A	32	N/A
GEORGIA	N/A	N/A	N/A	N/A	N/A	N/A
GEORGIA TECH	0	0	0	0	0	0
GUELPH	N/A	N/A	N/A	N/A	N/A	50
HARVARD	N/A	N/A	N/A	N/A	509	55
HAWAII	N/A	N/A	N/A	N/A	N/A	47
HOUSTON	N/A	N/A	N/A	N/A	N/A	N/A
HOWARD	0	0	0	0	0	0
ILLINOIS, CHICAGO	0	0	0	0	0	0
ILLINOIS, URBANA	N/A	N/A	N/A	N/A	U/A	72
INDIANA	N/A	N/A	N/A	N/A	N/A	U/A
IOWA	N/A	N/A	N/A	N/A	N/A	104
IOWA STATE	N/A	N/A	N/A	N/A	N/A	U/A
JOHNS HOPKINS	0	0	0	0	0	132
KANSAS	0	0	0	0	0	1
KENT STATE	0	N/A	0	N/A	U/A	U/A
KENTUCKY	N/A	N/A	N/A	N/A	2	0
LAVAL	N/A	N/A	N/A	N/A	U/A	U/A
LOUISIANA STATE	0	0	0	0	0	36
MCGILL	0	0	0	0	0	0
MCMASTER	N/A	N/A	N/A	N/A	N/A	10
MANITOBA	N/A	N/A	N/A	N/A	N/A	59
MARYLAND	9,440	0	0	0	0	18
MASSACHUSETTS	N/A	N/A	N/A	N/A	N/A	11
MIT	0	0	0	0	0	0
MIAMI	0	0	0	0	0	175
MICHIGAN	0	0	0	0	25	0
MICHIGAN STATE	0	0	0	0	0	201
MINNESOTA	0	0	0	0	4,554	2,000
MISSOURI	N/A	N/A	N/A	N/A	N/A	2
NEBRASKA	N/A	N/A	N/A	N/A	0	N/A
NEW MEXICO	0	0	0	0	0	5
NEW YORK	0	0	0	0	158	0
NORTH CAROLINA	0	0	0	0	0	6
NORTH CAROLINA STATE	0	0	0	0	0	0

Table III: PRESERVATION TREATMENT

INSTITUTION	CONSERVATION TREATMENT							
	Volumes: Level 1 Treatment Contract (1)	Volumes: Level 1 Treatment In-House (2)	Volumes: Level 2 Treatment Contract (3)	Volumes: Level 2 Treatment In-House (4)	Volumes: Level 3 Treatment Contract (5)	Volumes: Level 3 Treatment In-House (6)	Total Volumes Treated Contract (7)	Total Volumes Treated In-House (8)
NORTHWESTERN	0	15,419	0	5,057	0	158	0	20,634
NOTRE DAME	0	1,137	0	1,906	17	54	17	3,097
OHIO STATE	0	11,881	0	597	0	267	0	12,745
OKLAHOMA	N/A	319	N/A	1,361	N/A	N/A	N/A	1,680
OKLAHOMA STATE	0	3,242	0	75	0	3	0	3,320
OREGON	0	5,035	0	11,089	0	2,878	0	19,002
PENNSYLVANIA	N/A	1,250	N/A	N/A	12	N/A	12	1,250
PENNSYLVANIA STATE	0	1,847	0	221	23	4	23	2,072
PITTSBURGH	0	35,938	0	9,065	0	96	0	45,099
PRINCETON	N/A	12,930	N/A	3,031	1	2	1	15,963
PURDUE	0	2,782	0	3,101	0	44	0	5,927
QUEEN'S	N/A	1,877	N/A	306	N/A	N/A	N/A	2,183
RICE	0	8,936	0	3,045	0	162	0	12,143
ROCHESTER	N/A	12,129	N/A	2,799	112	125	112	15,053
RUTGERS	0	1,622	395	670	0	0	395	2,292
SASKATCHEWAN	N/A	30	N/A	6,307	37	N/A	37	6,337
SOUTH CAROLINA	N/A	U/A	N/A	U/A	N/A	U/A	N/A	U/A
SOUTHERN CALIFORNIA	0	5,593	50	6,489	0	0	50	12,082
SOUTHERN ILLINOIS	N/A	22,339	N/A	1,187	N/A	4	N/A	23,530
STANFORD	0	5,346	0	1,679	28	3	28	7,028
SUNY-ALBANY	N/A	12,970	N/A	1,423	8	12	8	14,405
SUNY-BUFFALO	0	3,567	0	7,665	0	0	0	11,232
SUNY-STONY BROOK	N/A	11,606	N/A	12,943	9	N/A	9	24,549
SYRACUSE	0	12,367	0	1,467	0	0	0	13,834
TEMPLE	0	1,850	0	120	0	0	0	1,970
TENNESSEE	0	461	0	363	0	165	0	989
TEXAS	N/A	35,289	N/A	2,840	N/A	116	N/A	38,245
TEXAS A&M	0	13,592	0	5,591	3	0	3	19,183
TORONTO	N/A	20,351	N/A	3,671	27	56	27	24,078
TULANE	N/A	3,905	N/A	182	N/A	N/A	N/A	4,087
UTAH	0	2,169	0	1,343	0	82	0	3,594
VANDERBILT	0	909	0	894	0	6	0	1,809
VIRGINIA	66	16,226	21	2,448	406	4	493	18,678
VPI & SU	0	952	0	1,544	0	0	0	2,496
WASHINGTON	0	7,322	0	584	0	274	0	8,180
WASHINGTON STATE	0	506	0	245	0	179	0	930
WASH. UNIV.-ST. LOUIS	0	2,898	0	1,278	0	0	0	4,176
WATERLOO	0	440	0	0	7	0	7	440
WAYNE STATE	N/A	5,556	N/A	250	N/A	0	N/A	5,806
WISCONSIN	0	684	0	2,012	0	13	0	2,709
YALE	N/A	23,437	N/A	4,732	36	674	36	28,843
YORK	136	669	N/A	U/A	N/A	U/A	N/A	U/A
BOSTON PUBLIC LIBRARY	N/A	24,157	N/A	420	N/A	215	N/A	24,792
CAN. INST. FOR SCITECH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RES. LIB.	U/A	U/A	N/A	N/A	N/A	N/A	U/A	U/A
LIBRARY OF CONGRESS	N/A	2,573	N/A	2,808	140	4,130	140	9,511
LINDA HALL LIBRARY	0	5,121	0	279	3	232	3	5,632
NATL. AGRI. LIBRARY	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NATL. LIBRARY OF CAN.	N/A	100	N/A	250	N/A	464	N/A	814
NATL. LIB. OF MEDICINE	78	N/A	122	N/A	198	N/A	398	N/A
NEW YORK PUB. LIBRARY	0	3,678	0	1,067	44	0	44	4,745
NEW YORK STATE LIBRARY	0	171	0	161	0	3	0	335
SMITHSONIAN INST.	N/A	269	N/A	50	N/A	156	N/A	475
UNIVERSITY LIBRARIES	3,892	632,528	2,249	266,473	1,991	11,053	8,132	910,054
NONUNIVERSITY LIBRARIES	78	36,069	122	5,035	385	5,200	585	46,304
ALL ARL LIBRARIES	3,970	668,597	2,371	271,508	2,376	16,253	8,717	956,358

Table III: PRESERVATION TREATMENT

INSTITUTION	CONSERVATION TREATMENT						BINDING	
	Sheets Treated Contract (9)	Sheets Treated In-House (10)	Non-paper Items Treated Contract (11)	Non-paper Items Treated In-House (12)	Protective Enclosures Constructed Contract (13)	Protective Enclosures Constructed In-House (14)	Volumes Bound Contract (15)	Volumes Bound In-House (16)
NORTHWESTERN	0	716	0	0	15	1,377	29,093	0
NOTRE DAME	1	0	0	0	39	148	17,931	0
OHIO STATE	0	1,643	0	300	88	4,230	47,941	0
OKLAHOMA	N/A	1,100	N/A	20	N/A	1,860	1,229	500
OKLAHOMA STATE	0	10	21	0	0	50	13,420	0
OREGON	7	1,051	0	1,000	94	598	19,261	0
PENNSYLVANIA	N/A	5,000	N/A	N/A	10	N/A	53,047	N/A
PENNSYLVANIA STATE	10	162	380	22,506	318	377	37,322	0
PITTSBURGH	0	0	0	0	398	108	19,964	2,650
PRINCETON	3	1,204	N/A	N/A	100	624	59,525	N/A
PURDUE	0	0	0	0	0	0	16,713	0
QUEEN'S	N/A	1,425	N/A	7	N/A	458	16,992	N/A
RICE	0	47	0	0	0	36	0	0
ROCHESTER	0	48	0	74	0	419	13,661	822
RUTGERS	0	1,130	0	3,990	105	1,472	44,641	0
SASKATCHEWAN	N/A	N/A	U/A	U/A	21	276	11,464	N/A
SOUTH CAROLINA	N/A	U/A	N/A	U/A	N/A	U/A	17,356	N/A
SOUTHERN CALIFORNIA	0	0	0	0	0	192	16,332	0
SOUTHERN ILLINOIS	N/A	4,093	N/A	N/A	N/A	2,256	23,129	N/A
STANFORD	1	239	0	138	0	7,067	47,836	N/A
SUNY-ALBANY	2	N/A	N/A	N/A	11	54	10,074	N/A
SUNY-BUFFALO	0	39,637	0	794	0	273	28,514	0
SUNY-STONY BROOK	46	164	N/A	N/A	0	239	11,599	N/A
SYRACUSE	7	237	1,040	300	0	112	13,183	0
TEMPLE	0	30,000	0	2,120	10	48	17,493	0
TENNESSEE	0	0	0	5	0	0	23,095	0
TEXAS	15	3,606	N/A	199	N/A	12,478	26,896	N/A
TEXAS A&M	0	101	0	1,000	0	704	17,910	0
TORONTO	N/A	2,269	N/A	N/A	2	1,229	28,542	N/A
TULANE	N/A	N/A	N/A	N/A	N/A	N/A	26,795	N/A
UTAH	0	3,450	0	97	0	2,161	18,157	3,668
VANDERBILT	0	27	0	500	0	220	27,681	0
VIRGINIA	8	1,223	0	0	10	1,142	41,369	10
VPI & SU	0	0	0	0	231	0	23,346	0
WASHINGTON	0	75	323	N/A	0	111	33,738	N/A
WASHINGTON STATE	0	61	0	0	0	23	17,573	0
WASH. UNIV.-ST. LOUIS	0	0	0	0	270	23	20,699	0
WATERLOO	0	0	0	0	43	0	15,623	0
WAYNE STATE	N/A	U/A	N/A	N/A	50	47	23,595	N/A
WISCONSIN	0	0	0	0	0	0	26,837	4,745
YALE	N/A	1,370	N/A	742	842	354	60,182	N/A
YORK	N/A	N/A	N/A	N/A	N/A	N/A	37,673	N/A
BOSTON PUBLIC LIBRARY	N/A	0	N/A	0	N/A	43	817	32,785
CAN. INST. FOR SCITECH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RES. LIB.	N/A	N/A	N/A	N/A	U/A	U/A	N/A	N/A
LIBRARY OF CONGRESS	30	50,338	N/A	30,807	N/A	4,561	189,542	N/A
LINDA HALL LIBRARY	0	0	N/A	N/A	134	113	5,497	0
NATL. AGRI. LIBRARY	U/A	U/A	U/A	U/A	U/A	U/A	11,900	U/A
NATL. LIBRARY OF CAN.	N/A	N/A	N/A	30	N/A	224	875	N/A
NATL. LIB. OF MEDICINE	1,653	N/A	88	N/A	408	N/A	27,993	N/A
NEW YORK PUB. LIBRARY	322	8,738	1,601	0	0	12,958	58,123	N/A
NEW YORK STATE LIBRARY	0	603	0	0	0	577	9,265	0
SMITHSONIAN INST.	N/A	9	N/A	N/A	675	138	12,885	N/A
UNIVERSITY LIBRARIES	5,839	374,332	9,034	172,747	18,953	85,954	2,844,538	87,156
NONUNIVERSITY LIBRARIES	2,005	59,688	1,689	30,837	1,217	18,614	316,897	32,785
ALL ARL LIBRARIES	7,844	434,020	10,723	203,584	20,170	104,568	3,161,435	119,941

Table III: PRESERVATION TREATMENT

INSTITUTION	MASS DEACIDIFICATION TREATMENT				PRESERVATION PHOTOCOPYING	
	Bound Vols. & Pamphlets Mass Deacid. Contract (17)	Bound Vols. & Pamphlets Mass Deacid. In-House (18)	Linear Feet of Manuscripts Mass Deacid. Contract (19)	Linear Feet of Manuscripts Mass Deacid. In-House (20)	Entire Item Contract (21)	Entire Item In-House (22)
NORTHWESTERN	200	0	0	0	83	0
NOTRE DAME	0	0	0	0	0	82
OHIO STATE	0	0	0	0	44	61
OKLAHOMA	N/A	N/A	N/A	N/A	N/A	17
OKLAHOMA STATE	0	0	0	0	0	12
OREGON	0	0	0	0	0	1
PENNSYLVANIA	N/A	N/A	N/A	N/A	0	690
PENNSYLVANIA STATE	0	0	0	0	0	1
PITTSBURGH	0	0	0	0	0	115
PRINCETON	N/A	N/A	N/A	N/A	51	321
PURDUE	0	0	0	0	0	0
QUEEN'S	N/A	N/A	N/A	N/A	N/A	20
RICE	0	0	0	0	0	0
ROCHESTER	N/A	0	N/A	N/A	49	0
RUTGERS	0	0	0	0	0	56
SASKATCHEWAN	N/A	N/A	N/A	N/A	N/A	N/A
SOUTH CAROLINA	N/A	N/A	N/A	N/A	15,981	N/A
SOUTHERN CALIFORNIA	0	0	0	0	0	0
SOUTHERN ILLINOIS	N/A	N/A	N/A	191	N/A	191
STANFORD	N/A	N/A	N/A	N/A	19	2,203
SUNY-ALBANY	N/A	N/A	N/A	N/A	15	208
SUNY-BUFFALO	0	0	0	0	0	569
SUNY-STONY BROOK	N/A	N/A	N/A	N/A	N/A	5
SYRACUSE	0	0	0	0	0	0
TEMPLE	0	0	0	0	0	54
TENNESSEE	0	0	0	0	0	0
TEXAS	N/A	N/A	N/A	N/A	5	N/A
TEXAS A&M	0	0	0	0	0	6
TORONTO	N/A	N/A	N/A	N/A	N/A	70
TULANE	N/A	N/A	N/A	N/A	N/A	N/A
UTAH	0	0	0	0	0	10
VANDERBILT	0	0	0	0	0	0
VIRGINIA	0	0	0	0	81	217
VPI & SU	0	0	0	0	0	0
WASHINGTON	0	N/A	0	N/A	1	52
WASHINGTON STATE	N/A	N/A	N/A	N/A	N/A	N/A
WASH. UNIV.-ST. LOUIS	0	0	0	0	392	3
WATERLOO	0	0	0	0	0	0
WAYNE STATE	N/A	N/A	N/A	N/A	N/A	U/A
WISCONSIN	0	0	0	0	0	0
YALE	N/A	N/A	N/A	N/A	16	16,038
YORK	N/A	N/A	N/A	N/A	N/A	N/A
BOSTON PUBLIC LIBRARY	N/A	N/A	N/A	0	N/A	0
CAN. INST. FOR SCITECH	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RES. LIB.	N/A	N/A	N/A	N/A	N/A	N/A
LIBRARY OF CONGRESS	0	N/A	0	N/A	0	0
LINDA HALL LIBRARY	N/A	N/A	N/A	N/A	4	0
NATL. AGRI. LIBRARY	U/A	U/A	U/A	U/A	U/A	U/A
NATL. LIBRARY OF CAN.	N/A	31,954	N/A	N/A	0	0
NATL. LIB. OF MEDICINE	N/A	N/A	N/A	N/A	N/A	7
NEW YORK PUB. LIBRARY	N/A	N/A	N/A	N/A	263	N/A
NEW YORK STATE LIBRARY	0	0	0	0	0	0
SMITHSONIAN INST.	N/A	N/A	N/A	N/A	N/A	N/A
UNIVERSITY LIBRARIES	10,631	853	0	191	24,829	24,584
NONUNIVERSITY LIBRARIES	0	31,954	0	0	267	7
ALL ARL LIBRARIES	10,631	32,807	0	191	25,096	24,591

Table IV: PRESERVATION MICROFILMING

INSTITUTION	Total Volumes Contract Film (1)	Total Volumes In-House Film (2)	Total Volumes Contract Fiche (3)	Total Volumes In-House Fiche (4)	Total Titles Contract Film (5)	Total Titles In-House Film (6)	Total Titles Contract Fiche (7)	Total Titles In-House Fiche (8)
ALABAMA	0	0	0	0	0	0	0	0
ALBERTA	U/A	N/A	N/A	N/A	U/A	N/A	N/A	N/A
ARIZONA	0	0	0	0	0	0	0	0
ARIZONA STATE	0	0	0	0	0	0	0	0
BOSTON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BRIGHAM YOUNG	0	0	0	0	2	0	0	0
BRITISH COLUMBIA	0	N/A	N/A	N/A	0	N/A	N/A	N/A
BROWN	1,738	46	N/A	N/A	1,478	46	N/A	N/A
CALIFORNIA, BERKELEY	5,528	800	N/A	N/A	3,780	560	N/A	N/A
CALIFORNIA, DAVIS	206	N/A	382	N/A	7	N/A	382	N/A
CALIFORNIA, IRVINE	25	N/A	100	N/A	13	N/A	1	N/A
CALIFORNIA,LOS ANGELES	0	994	0	0	0	620	0	0
CALIFORNIA, RIVERSIDE	106	N/A	N/A	N/A	68	N/A	N/A	N/A
CALIFORNIA, SAN DIEGO	58	0	0	0	5	0	0	0
CALIFORNIA, SANTA BARBARA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CASE WESTERN RESERVE	4	0	0	0	2	0	0	0
CHICAGO	U/A	N/A	N/A	N/A	3,852	N/A	N/A	N/A
CINCINNATI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COLORADO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COLORADO STATE	0	0	0	0	0	0	0	0
COLUMBIA	4,709	176	0	0	2,830	131	0	0
CONNECTICUT	104	N/A	0	N/A	1	N/A	0	N/A
CORNELL	3,343	N/A	53	N/A	1,300	N/A	47	N/A
DARTMOUTH	279	N/A	N/A	N/A	279	N/A	N/A	N/A
DELAWARE	0	0	0	0	0	0	0	0
DUKE	N/A	19	N/A	N/A	N/A	19	N/A	N/A
EMORY	2,389	N/A	N/A	N/A	2,386	N/A	N/A	N/A
FLORIDA	1,904	629	0	0	1,758	506	0	0
FLORIDA STATE	U/A	0	0	0	24	0	0	0
GEORGETOWN	N/A	N/A	N/A	N/A	N/A	107	N/A	N/A
GEORGIA	N/A	U/A	N/A	N/A	N/A	358	N/A	N/A
GEORGIA TECH	0	0	0	0	0	0	0	0
GUELPH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HARVARD	8,367	0	1,217	0	U/A	0	U/A	0
HAWAII	N/A	N/A	N/A	N/A	5	N/A	1	N/A
HOUSTON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HOWARD	0	205	0	265	0	205	0	265
ILLINOIS, CHICAGO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ILLINOIS, URBANA	U/A	U/A	U/A	U/A	U/A	1,003	U/A	93
INDIANA	237	N/A	0	N/A	27	N/A	0	N/A
IOWA	280	N/A	N/A	N/A	272	N/A	N/A	N/A
IOWA STATE	1	N/A	N/A	N/A	1	N/A	N/A	N/A
JOHNS HOPKINS	0	N/A	N/A	N/A	0	N/A	N/A	N/A
KANSAS	0	18	0	0	0	37	0	0
KENT STATE	U/A	N/A	N/A	N/A	1	N/A	N/A	N/A
KENTUCKY	N/A	863	N/A	N/A	N/A	415	N/A	N/A
LAVAL	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
LOUISIANA STATE	N/A	U/A	N/A	N/A	N/A	U/A	N/A	N/A
MCGILL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MCMASTER	60	N/A	N/A	N/A	46	N/A	N/A	N/A
MANITOBA	0	0	0	0	0	0	0	0
MARYLAND	3	0	0	0	3	0	0	0
MASSACHUSETTS	U/A	N/A	N/A	N/A	5	N/A	N/A	N/A
MIT	N/A	1,283	N/A	2,076	N/A	299	N/A	2,076
MIAMI	188	0	0	0	88	0	0	0
MICHIGAN	3,027	2,406	0	0	2,958	1,882	0	0
MICHIGAN STATE	524	0	0	0	473	0	0	0
MINNESOTA	1,093	0	0	0	92	0	0	0
MISSOURI	N/A	0	N/A	0	N/A	0	N/A	0
NEBRASKA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NEW MEXICO	16	0	0	0	2	0	0	0
NEW YORK	2,909	0	0	0	2,399	0	0	0
NORTH CAROLINA	N/A	253	N/A	N/A	N/A	160	N/A	N/A
NORTH CAROLINA STATE	0	0	0	0	0	0	0	0

Table IV: PRESERVATION MICROFILMING

INSTITUTION	Total Expos. Contract Film (9)	Total Expos. In-House Film (10)	Total Expos. Contract Fiche (11)	Total Expos. In-House Fiche (12)	Preserv. Microfilm. Total Volumes (13)	Preserv. Microfilm Total Titles (14)	Preserv. Microfilm. Total Expos. 15)
ALABAMA	0	0	0	0	0	0	0
ALBERTA	U/A	N/A	N/A	N/A	U/A	U/A	U/A
ARIZONA	0	0	0	0	0	0	0
ARIZONA STATE	0	0	0	0	0	0	0
BOSTON	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BRIGHAM YOUNG	1,130	0	0	0	U/A	2	1,130
BRITISH COLUMBIA	0	N/A	N/A	N/A	0	0	0
BROWN	248,266	7,679	N/A	N/A	1,784	1,524	255,945
CALIFORNIA, BERKELEY	U/A	U/A	N/A	N/A	6,328	4,340	U/A
CALIFORNIA, DAVIS	91,067	N/A	58,883	N/A	588	389	149,950
CALIFORNIA, IRVINE	U/A	N/A	46,381	N/A	125	14	46,381
CALIFORNIA,LOS ANGELES	0	144,736	0	0	994	620	144,736
CALIFORNIA, RIVERSIDE	18,729	N/A	N/A	N/A	106	68	18,729
CALIFORNIA, SAN DIEGO	36,495	0	0	0	58	5	36,495
CALIFORNIA, SANTA BARBARA	N/A	N/A	N/A	N/A	0	0	0
CASE WESTERN RESERVE	760	0	0	0	4	2	760
CHICAGO	955,273	N/A	N/A	N/A	U/A	3,852	955,273
CINCINNATI	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COLORADO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COLORADO STATE	0	0	0	0	0	0	0
COLUMBIA	925,819	38,515	0	0	4,885	2,961	964,334
CONNECTICUT	U/A	N/A	0	N/A	104	1	U/A
CORNELL	328,873	N/A	8,870	N/A	3,396	1,347	337,743
DARTMOUTH	19,181	N/A	N/A	N/A	279	279	19,181
DELAWARE	0	0	0	0	0	0	0
DUKE	N/A	7,322	N/A	N/A	19	19	7,322
EMORY	366,597	4,974	N/A	N/A	2,389	2,386	371,571
FLORIDA	261,792	185,256	0	0	2,533	2,264	447,048
FLORIDA STATE	34,763	0	0	0	U/A	24	34,763
GEORGETOWN	N/A	N/A	N/A	N/A	U/A	107	U/A
GEORGIA	N/A	395,264	N/A	N/A	U/A	358	395,264
GEORGIA TECH	0	0	0	0	0	0	0
GUELPH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HARVARD	U/A	0	0	0	9,584	U/A	U/A
HAWAII	17,782	N/A	10,000	N/A	U/A	6	27,782
HOUSTON	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HOWARD	0	133,205	0	18,550	470	470	151,755
ILLINOIS, CHICAGO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ILLINOIS, URBANA	U/A	115,459	U/A	9,874	U/A	1,096	125,333
INDIANA	53,221	N/A	0	N/A	237	27	53,221
IOWA	46,678	N/A	N/A	N/A	280	272	46,678
IOWA STATE	1,057	N/A	N/A	N/A	1	1	1,057
JOHNS HOPKINS	0	N/A	N/A	N/A	0	0	0
KANSAS	0	3,749	0	0	18	37	3,749
KENT STATE	U/A	N/A	N/A	N/A	U/A	1	U/A
KENTUCKY	N/A	309,781	N/A	N/A	863	415	309,781
LAVAL	U/A	U/A	U/A	U/A	U/A	U/A	U/A
LOUISIANA STATE	N/A	310,795	N/A	N/A	U/A	U/A	310,795
MCGILL	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MCMASTER	22,382	N/A	N/A	N/A	60	46	22,382
MANITOBA	0	0	0	0	0	0	0
MARYLAND	119,000	0	0	0	3	3	119,000
MASSACHUSETTS	5,312	N/A	N/A	N/A	U/A	5	5,312
MIT	N/A	432,025	N/A	579,050	3,359	2,375	1,011,075
MIAMI	31,868	0	0	0	188	88	31,868
MICHIGAN	419,374	426,569	0	0	5,433	4,840	845,943
MICHIGAN STATE	95,678	0	0	0	524	473	95,678
MINNESOTA	301,152	0	0	0	1,093	92	301,152
MISSOURI	N/A	0	N/A	0	0	0	0
NEBRASKA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NEW MEXICO	58,200	0	0	0	16	2	58,200
NEW YORK	457,275	0	0	0	2,909	2,399	457,275
NORTH CAROLINA	N/A	45,392	N/A	N/A	253	160	45,392
NORTH CAROLINA STATE	0	0	0	0	0	0	0

Table IV: PRESERVATION MICROFILMING

INSTITUTION	Total Volumes Contract Film (1)	Total Volumes In-House Film (2)	Total Volumes Contract Fiche (3)	Total Volumes In-House Fiche (4)	Total Titles Contract Film (5)	Total Titles In-House Film (6)	Total Titles Contract Fiche (7)	Total Titles In-House Fiche (8)
NORTHWESTERN	5,246	0	0	0	U/A	0	0	0
NOTRE DAME	29	0	30	0	14	0	30	0
OHIO STATE	470	114	0	0	429	5	0	0
OKLAHOMA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OKLAHOMA STATE	0	0	0	0	0	0	0	0
OREGON	200	67	300	0	0	0	0	0
PENNSYLVANIA	15	0	0	0	12	0	0	0
PENNSYLVANIA STATE	421	0	0	0	U/A	0	0	0
PITTSBURGH	45	0	0	0	49	3	0	0
PRINCETON	5,240	402	U/A	102	4,902	212	U/A	102
PURDUE	0	0	0	0	0	0	0	0
QUEEN'S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RICE	0	0	0	0	0	0	0	0
ROCHESTER	U/A	0	0	0	169	0	0	0
RUTGERS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SASKATCHEWAN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTH CAROLINA	N/A	N/A	N/A	N/A	N/A	13	N/A	N/A
SOUTHERN CALIFORNIA	0	523	0	0	0	523	0	0
SOUTHERN ILLINOIS	124	N/A	N/A	N/A	U/A	N/A	N/A	N/A
STANFORD	2,735	1,449	N/A	N/A	951	1,087	N/A	N/A
SUNY-ALBANY	153	N/A	N/A	N/A	39	N/A	N/A	N/A
SUNY-BUFFALO	0	N/A	U/A	N/A	0	N/A	345	N/A
SUNY-STONY BROOK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SYRACUSE	0	0	0	0	0	0	0	0
TEMPLE	0	0	0	0	0	0	0	0
TENNESSEE	0	0	0	0	0	0	0	0
TEXAS	967	N/A	N/A	N/A	899	N/A	N/A	N/A
TEXAS A&M	0	0	U/A	U/A	0	0	0	0
TORONTO	U/A	U/A	U/A	U/A	N/A	74	1	707
TULANE	770	N/A	N/A	N/A	650	N/A	N/A	N/A
UTAH	U/A	0	0	0	52	0	0	0
VANDERBILT	89	0	0	0	84	0	0	0
VIRGINIA	402	0	0	0	377	0	0	0
VPI & SU	0	0	0	0	0	0	0	0
WASHINGTON	U/A	N/A	N/A	N/A	13	N/A	U/A	N/A
WASHINGTON STATE	U/A	N/A	N/A	N/A	2	N/A	N/A	N/A
WASHINGTON U-ST. LOUIS	0	0	0	0	0	0	0	0
WATERLOO	0	0	0	0	0	0	0	0
WAYNE STATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WISCONSIN	0	1,637	0	0	0	2,153	0	0
YALE	10,112	118	N/A	N/A	7,829	43	N/A	N/A
YORK	U/A	15	U/A	N/A	U/A	15	U/A	N/A
BOSTON PUBLIC LIBRARY	U/A	N/A	N/A	N/A	252	N/A	N/A	N/A
CAN. INST. FOR SCITECH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RES. LIB.	811	N/A	5,359	N/A	434	N/A	2,436	N/A
LIBRARY OF CONGRESS	0	N/A	0	N/A	0	1,858	0	3,866
LINDA HALL LIBRARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATL. AGRI. LIBRARY	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NATL. LIBRARY OF CAN.	N/A	N/A	20,656	N/A	N/A	N/A	6,855	N/A
NATL. LIB. OF MEDICINE	5,481	N/A	N/A	N/A	U/A	N/A	N/A	N/A
NEW YORK PUB. LIBRARY	401	9,558	255	0	588	4,061	255	0
NEW YORK STATE LIBRARY	54	U/A	U/A	U/A	1	125	994	861
SMITHSONIAN INST.	0	N/A	0	N/A	0	N/A	0	N/A
UNIVERSITY LIBRARIES	64,116	12,017	2,082	2,443	40,628	10,476	807	3,243
NONUNIVERSITY LIBRARIES	6,747	9,558	26,270	0	1,275	6,044	10,540	4,727
ALL ARL LIBRARIES	70,863	21,575	28,352	2,443	41,903	16,520	11,347	7,970

Table IV: PRESERVATION MICROFILMING

INSTITUTION	Total Expos. Contract Film (9)	Total Expos. In-House Film (10)	Total Expos. Contract Fiche (11)	Total Expos. In-House Fiche (12)	Preserv. Microfilm Total Volumes (13)	Preserv. Microfilm Total Titles (14)	Preserv. Microfilm Total Expos. 15)
NORTHWESTERN	U/A	0	0	0	5,246	U/A	U/A
NOTRE DAME	27,022	0	16,370	0	59	44	43,392
OHIO STATE	93,286	489,500	0	0	584	434	582,786
OKLAHOMA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OKLAHOMA STATE	0	0	0	0	0	0	0
OREGON	0	708,600	0	0	567	0	708,600
PENNSYLVANIA	2,986	0	0	0	15	12	2,986
PENNSYLVANIA STATE	U/A	0	0	0	421	U/A	U/A
PITTSBURGH	30,603	2,711	0	0	45	52	33,314
PRINCETON	518,948	187,215	4,878	6,548	5,744	5,216	717,589
PURDUE	0	0	0	0	0	0	0
QUEEN'S	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RICE	0	0	0	0	0	0	0
ROCHESTER	U/A	0	0	0	U/A	169	U/A
RUTGERS	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SASKATCHEWAN	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SOUTH CAROLINA	N/A	86,507	N/A	N/A	N/A	13	86,507
SOUTHERN CALIFORNIA	0	116,338	0	0	523	523	116,338
SOUTHERN ILLINOIS	U/A	N/A	N/A	N/A	124	U/A	U/A
STANFORD	553,527	496,603	N/A	N/A	4,184	2,038	1,050,130
SUNY-ALBANY	18,226	99,750	N/A	N/A	153	39	117,976
SUNY-BUFFALO	0	N/A	U/A	N/A	U/A	345	U/A
SUNY-STONY BROOK	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SYRACUSE	0	0	0	0	0	0	0
TEMPLE	0	0	0	0	0	0	0
TENNESSEE	0	0	0	0	0	0	0
TEXAS	283,857	N/A	N/A	N/A	967	899	283,857
TEXAS A&M	0	0	0	0	0	0	0
TORONTO	N/A	14,277	8,274	137,495	U/A	782	160,046
TULANE	U/A	U/A	U/A	U/A	770	650	U/A
UTAH	35,000	0	0	0	U/A	52	35,000
VANDERBILT	6,484	0	0	0	89	84	6,484
VIRGINIA	54,041	0	0	0	402	377	54,041
VPI & SU	0	0	0	0	0	0	0
WASHINGTON	27,000	N/A	57,323	N/A	U/A	13	84,323
WASHINGTON STATE	U/A	N/A	N/A	N/A	U/A	2	U/A
WASHINGTON U-ST. LOUIS	0	0	0	0	0	0	0
WATERLOO	0	0	0	0	0	0	0
WAYNE STATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WISCONSIN	0	489,686	0	0	1,637	2,153	489,686
YALE	1,650,122	166,771	N/A	N/A	10,230	7,872	1,816,893
YORK	U/A	U/A	U/A	N/A	15	15	U/A
BOSTON PUBLIC LIBRARY	872,654	N/A	N/A	N/A	U/A	252	872,654
CAN. INST. FOR SCITECH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CENTER FOR RES. LIB.	654,850	N/A	509,948	N/A	6,170	2,870	1,164,798
LIBRARY OF CONGRESS	0	5,658,314	0	N/A	U/A	5,724	5,658,314
LINDA HALL LIBRARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NATL. AGRI. LIBRARY	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NATL. LIBRARY OF CAN.	N/A	N/A	2,015,370	N/A	20,656	6,855	2,015,370
NATL. LIB. OF MEDICINE	1,136,766	N/A	N/A	N/A	5,481	U/A	1,136,766
NEW YORK PUB. LIBRARY	163,960	2,217,479	8,670	0	10,214	4,904	2,390,109
NEW YORK STATE LIBRARY	16,200	83,188	250,500	76,737	54	1,981	426,625
SMITHSONIAN INST.	0	N/A	0	N/A	0	0	0
UNIVERSITY LIBRARIES	8,218,826	5,418,679	210,979	751,517	80,658	55,154	14,600,001
NONUNIVERSITY LIBRARIES	2,844,430	7,958,981	2,784,488	76,737	42,575	22,586	13,664,636
ALL ARL LIBRARIES	11,063,256	13,377,660	2,995,467	828,254	123,233	77,740	28,264,637

Part II: Analysis of Core Data for All Reporting Libraries

1. Organizational Structure

a. Preservation Administration

The most significant means for measuring the progress of ARL libraries in increasing their preservation efforts is to track the establishment of preservation programs managed by a preservation administrator. The data offer persuasive evidence that preservation programs are becoming a standard unit in research libraries. As displayed in the data tables, 90 institutions indicated that the library has appointed a preservation administrator, and of those, 55 libraries reported that the preservation program is managed by a full-time preservation administrator. Responses are summarized below.

Table 1. Administration of Preservation Programs

Full-time preservation administrator	55 (47%)
Part-time preservation administrator who devotes 50% or more time to preservation activities, but not 100%	14 (12%)
Part-time preservation administrator who devotes less than 50% of time to preservation activities	21 (18%)
No preservation administrator	27 (23%)

b. Reporting Relationships

While the creation of separate preservation units in ARL libraries is becoming quite common, their placement is far from uniform. The 90 responses to the question on reporting relationship show two predominant organizational patterns: the preservation administrator reports to the library director or to the assistant/associate director for collection development. The third most-cited reporting relationship is to the assistant/associate director for technical services. The remaining libraries chose a variety of organizational options placing the preservation administrator within special collections, public services, or administrative services. Although the placement of preservation departments within the library structure varies, with few exceptions, the preservation administrator reports to senior library management.

Table 2. Position to Which Preservation Administrator Reports

Director of Libraries/Associate Director	26.5 (29.4%)
Assistant/Associate Director for Collection Management	26 (29%)
Assistant/Associate Director for Technical Services	17.5 (19.4%)
Assistant/Associate Director for Public Services	3 (3.3%)
Other	17 (18.9%)

2. Personnel

The size of the staff reporting to the preservation administrator is a key factor in defining a library's level of preservation program development. The table below displays the correlation between number of professional staff FTE and the number of nonprofessional staff FTE and student assistant FTE in preservation units. The median figures for staff size are used as indicators of the midpoint in the distribution at which values cluster. The preservation administrator is included in the number of professional staff. (Total of 90 programs reported).

Table 3. Staffing Patterns of Preservation Programs

Number of Professionals	Median of Nonprofessionals	Median of Student Assistants	Median of Total FTE
4 or more (15%)	15.48	3.9	26.01
2 - 3.9 (19%)	3	1.8	8
1 - 1.9 (35%)	3	1	6.7
less than 1 (31%)	.26	0	.88

Reporting accurate statistics regarding the number of FTE staff engaged in preservation activities library-wide remains problematic. The variety and complexity of organizational structures make collecting the data a time-consuming and difficult burden for libraries. Even in libraries with large-scale preservation departments the data show that preservation cannot be completely assigned to that single organizational unit. Instead it is evident that there are preservation aspects in the work of almost every library unit and that preservation is a library-wide responsibility. The more decentralized preservation activities are and the more scattered staffs involved in preservation activities are, the more difficult it becomes to provide accurate data. Caution should be used in interpreting the data below, because of these problems. (Total of 117 libraries reporting data).

Table 4. Staffing Patterns of Preservation Activities Library-Wide

Number of Professionals	Median of Nonprofessionals	Median of Student Assistants	Median of of Total FTE
4 or more (19%)	14.9	6.15	25.69
2 - 3.9 (17%)	7.3	4.05	14.65
1 - 1.9 (27%)	5.49	1.75	9.43
less than 1 (37%)	4	1.7	6.45

3. Expenditures

The financial support for preservation activities in ARL university libraries shows a substantial range from less than $100,000 to more than $3 million during fiscal year 1990-91. As a corollary, ARL university libraries spent from 1.3% to as much as 9.3% of total operating budgets for preservation.

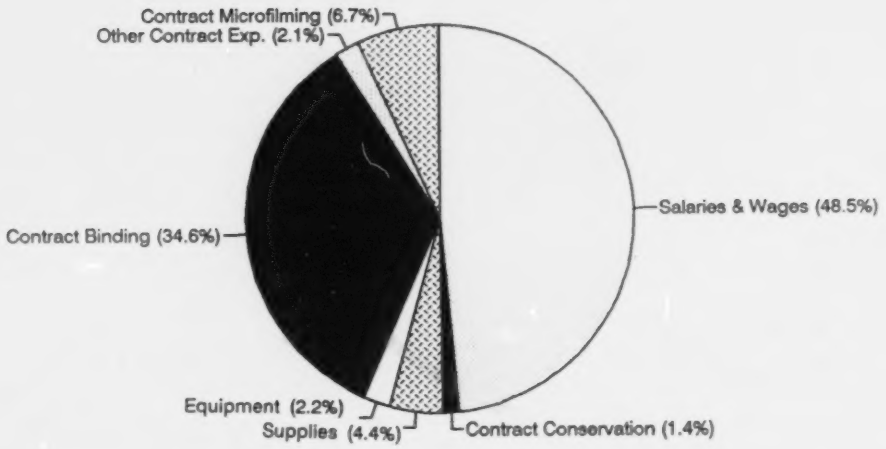
Table 5 summarizes preservation expenditures by displaying the midpoint for three ranges for all reporting ARL libraries. It also indicates corresponding median preservation expenditures as a percentage of total operating expenditures and as a percentage of materials expenditures.

The pie chart on page 26 highlights the allocation of preservation expenditures. Local needs and capabilities will determine the exact allocation of budgetary resources to various activities, but it is useful to look at the aggregate apportionment for ARL member libraries. As in past years, the largest category is salaries and wages, followed by binding expenditures. The chart displays the allocation of preservation expenditures based on data from all reporting ARL libraries.

Table 5. Preservation Expenditures

	Median of First Quartile	Median of All Responses	Median of Third Quartile
Total Preservation Expenditures	$897,587	$386,929	$311,163
Preservation Expenditures as Percent of Total Library Expenditures	4.6%	3.3%	3%
Preservation Expenditures as Percent of Materials Expenditures	15.5%	9.6%	8.5%

Preservation Expenditures, 1990-1991
Grand Totals



4. Conservation Treatment

Conservation treatments encompass an array of activities as defined in the instructions that accompanied the survey. Beginning in 1989-90, the amount of *time* required to complete conservation treatments has been used (i.e., "treatments that require 15 minutes or less to perform, more than 15 minutes but less than 2 hours, and more than 2 hours"). While the resulting data tell us only how long the treatments take rather than how technically complex they are, results are more reliable and do not invite facile assumption about the nature of an institution's conservation program. The table below provides information on the number of volumes that received minor treatment and the number of volumes that were given more time-consuming intermediate and major conservation treatment. It is recognized that significant differences exist in the nature of treatments performed.

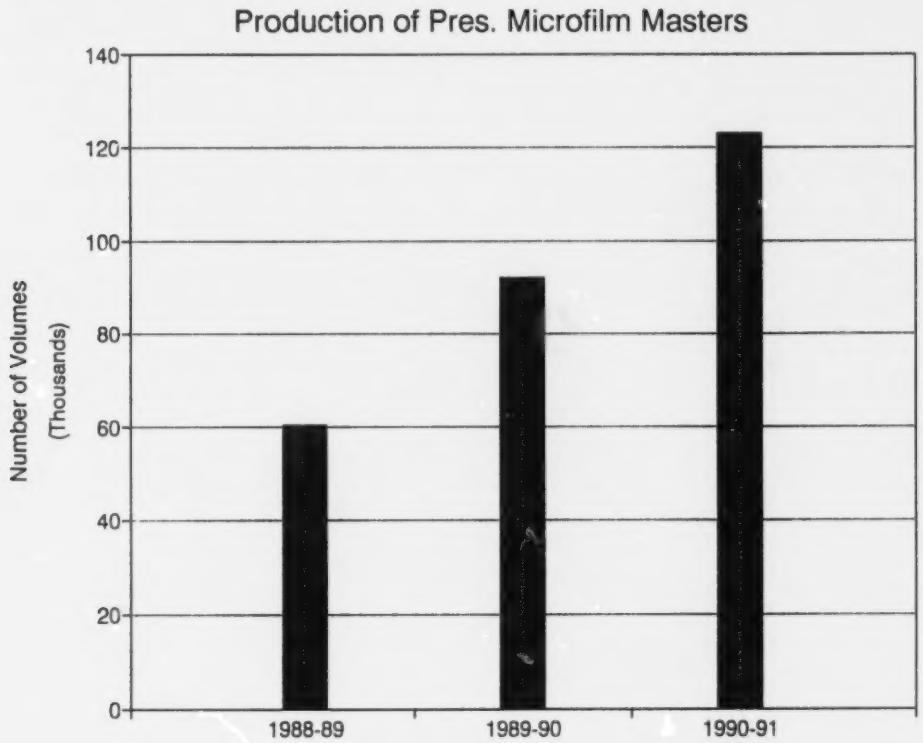
Table 6. Conservation Treatment

	Median of First Quartile	Median of All Responses	Median of Third Quartile
Number of Volumes: Level 1 Treatment	12,970	2,967	1,847
Number of Volumes: Levels 2 & 3 Treatment	6,236	1,425	840

5. Preservation Microfilming

The reporting of preservation microfilming production remains problematic. At present, libraries continue to differ in reporting preservation microfilming outputs. Only a few libraries report number of titles filmed, volumes filmed, and number of exposures. Most libraries still only report data for one or two of these categories. The data underscore the impact of the brittle books program and show a substantial increase in the number of titles filmed, volumes filmed, and total number of exposures. The data tables display figures as reported by member libraries for these three categories. Another notable trend is the dependence on contract filming to meet preservation microfilming production targets.

The graph on page 28 highlights the increase in number of volumes filmed since the first published edition of the *ARL Preservation Statistics*.



Number of Libraries Reporting:

1988-89	107
1989-90	115
1990-91	117

Part III: Analysis of Core Data by Size of Collection

This section analyzes the organizational, fiscal, and functional components of preservation programs in relation to collection size. While many other factors, including the age, nature and scope of the collection, the environmental conditions under which the collections have been housed, and the level of use shape the ways a library's preservation program develops, size of collection is the most significant factor in measuring the level of preservation effort.

In 1991 ARL published preservation program benchmarks for selected core activities in the *Preservation Program Models* report.[2] The benchmarks were intended to serve as indicators of the level of effort that can be expected as a library's preservation program develops. The benchmarks reflect targets and are a useful tool for measuring progress toward meeting preservation needs. The tables in this section parallel the four size groupings of ARL libraries used in the *Preservation Program Models* report.[3] These are collections of more than 5 million volumes, 3 to 5 million volumes, 2 to 3 million volumes, and less than 2 million volumes. For each size grouping, the tables provide medians for personnel, budget, and production. In this report, median figures are used as indicators of the midpoint in the distribution at which values cluster. The medians offer a composite measure for assessing the scale of local effort based on four different size groupings. The benchmarks reflected an ideal progression of preservation program development. They provide a useful tool for comparing the level of preservation services needed with the current level of activities. Libraries interested in that comparison may wish to consult the *Preservation Program Models* report.

The size groupings and number of libraries in each category are:

Group 1:	over 5 million volumes (18 libraries)
Group 2:	3 to 5 million volumes (16 libraries)
Group 3:	2 to 3 million volumes (41 libraries)
Group 4:	under 2 million volumes (42 libraries)

The tables on pages 30 and 31 summarize the responses for the four size groupings in five categories.

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[2]Jan Merrill-Oldham, Carolyn Clark Morrow, and Mark Roosa, *Preservation Program Models: A Study Project and Report* (Washington, D.C.: Association of Research Libraries, 1991).

[3]The libraries in each group are determined by data submitted to the 1990-91 *ARL Statistics* (Washington, D.C.: Association of Research Libraries, 1992).

Table 7. Staffing Patterns of Preservation Programs

	Median of Professionals	Median of Nonprof.	Median of Student FTE	Median of Total FTE
Group 1	4.25	13.95	3	20.75
Group 2*	.88	1	.38	2.25
Group 3**	1	2.9	1	6.5
Group 4***	.25	.8	0	1.88

* 3 libraries in this group report no Preservation Program
** 14 libraries in this group report no Preservation Program
*** 13 libraries in this group report no Preservation Program

Table 8. Staffing Patterns of Preservation Activities Library-wide

	Median of Professionals	Median of Nonprof.	Median of Student FTE	Median of Total FTE
Group 1	6.3	17.73	4.15	30.25
Group 2	1.94	9.03	3.70	16.3
Group 3	1.25	5.5	2.3	10.5
Group 4	.64	4.25	1	6.83

Table 9. Preservation Expenditures

	Median of Total Preservation Expenditures	Median of Pres. Exp. as % of Total Library Exp.	Median of Pres. Exp. as % of Materials Expendit.
Group 1	$1,164,114	4.1%	15.65%
Group 2	$652,250	4.1%	11.3%
Group 3	$391,881	3.0%	9.7%
Group 4	$261,866	2.85%	7.85%

Table 10. Conservation Treatment

	Median of Level 1 Treatment	Median of Level 2 Treatment	Median of Level 3 Treatment
Group 1	6,972	2,699	141
Group 2	3,735	2,174	20
Group 3	3,552	1,361	2
Group 4	1,975	753	9

Table 11. Contract Binding

	Median of Contract Binding Expenditures	Median of Number of Volumes Bound
Group 1	$349,063	46,037
Group 2	$273,776	38,899
Group 3	$155,685	20,699
Group 4	$131,426	16,168

ARL PRESERVATION STATISTICS QUESTIONNAIRE

1990–91

PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE RESPONDING. NOTE: If the appropriate answer is **zero or none**, use **"0"**. If an exact figure is **unavailable**, use **"U/A."** If a question is **not applicable**, use **"N/A." Please do not leave any entries blank**.

Reporting Institution _____ Date Returned to ARL _____

Questionnaire Completed by (Name) _____

Title and Department _____

Phone number _____ Reviewed by (initials of library director) _____

ADMINISTRATION

1. Does the library have a preservation administrator (yes/no) _____

2. If yes, what percentage of the administrator's total job assignment is dedicated to preservation activities and preservation program management? _____ %

3. If yes, what is the job title of the person to whom the preservation administrator reports?

_____

PERSONNEL

4. If the library has a preservation administrator who supervises staff, how many staff are in the preservation unit (including the preservation administrator)?

Professional Staff FTE	Nonprofessional Staff FTE	Student Assistants FTE	Total Staff FTE
_____	_____	_____	_____

5. How many FTE staff are engaged in preservation activities library-wide (including staff reported in question #4 above)?

Professional Staff FTE	Nonprofessional Staff FTE	Student Assistants FTE	Total Staff FTE
_____	_____	_____	_____

EXPENDITURES

(Check one): CANADIAN DOLLARS _____ U.S. DOLLARS _____

6. Salaries and wages for staff engaged in preservation activities library-wide (as reported in question #5 above)

   6a. Professional staff $_____

   6b. Nonprofessional staff $_____

   6c. Student assistants $_____

   6d. TOTAL expenditures for preservation staff $_____

7. Contract expenditures

   7a. Contract conservation $_____

   7b. Contract commercial binding (as reported on the 1990-91 *ARL Statistics* questionnaire on line 21) $_____

   7c. Contract preservation photocopying $_____

   7d. Contract preservation microfilming $_____

   7e. Other contract expenditures $_____

   7f. TOTAL contract expenditures $_____

8. Preservation supplies $_____

9. Preservation equipment $_____

TOTAL preservation expenditures (Lines 6d, 7f, 8, & 9) $_____

11. Total preservation expenditures that came from external sources $_____

CONSERVATION TREATMENT	CONTRACT	IN-HOUSE
12. Number of volumes (including pamphlets) given level 1 conservation treatment	_____	_____
13. Number of volumes (including pamphlets) given level 2 conservation treatment	_____	_____
14. Number of volumes (including pamphlets) given level 3 conservation treatment	_____	_____
15. TOTAL number of volumes (including pamphlets) given conservation treatment (Add lines 12, 13, & 14)	_____	_____
16. Number of unbound sheets given conservation treatment	_____	_____
17. Number of photographs and non-paper items given conservation treatment	_____	_____
18. Number of custom-fitted protective enclosures constructed	_____	_____

COMMERCIAL BINDING		
19. Number of volumes commercially bound or rebound (or bound in-house using methods and materials typically used by the commercial library binding industry)	_____	_____

MASS TREATMENT		
20. Number of bound volumes and pamphlets mass-deacidified	_____	_____
21. Number of linear feet of manuscripts mass-deacidified	_____	_____

PRESERVATION PHOTOCOPYING		
22. Number of bound volumes and pamphlets photocopied in their entirety	_____	_____

PRESERVATION MICROFILMING PRODUCTION

	CONTRACT ROLL FILM	IN-HOUSE ROLL FILM	CONTRACT FICHE	IN-HOUSE FICHE
23. TOTAL Microfilming Production				
23a. Volumes	_____	_____	_____	_____
23b. Titles	_____	_____	_____	_____
23c. Exposures	_____	_____	_____	_____

FOOTNOTES

1. Law Library statistics are included.

   _____ Yes _____ No _____We do not have a Law Library

2. Medical Library statistics are included.

   _____ Yes _____ No _____We do not have a Medical Library

3. Other main campus libraries not included:

   _____

   _____

   _____

4. Figures include reports from branch campus libraries.

   _____ Yes _____ No _____We have only one campus

5. If branch campus libraries are included, please specify which campuses.

   _____

   _____

6. If branch campus libraries are **not** included, please specify which campuses:

   _____

   _____

7. COMMENTS (Attach sheet if additional space is needed):

   _____

   _____

   _____

   _____

   _____

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2466
BITNET: ARLHQ@UMDC

ARL PRESERVATION STATISTICS QUESTIONNAIRE

1990–91

GENERAL INSTRUCTIONS

1. Enclosed are two copies of the questionnaire for the 1990–91 *ARL Preservation Statistics*. One copy should be returned to the ARL Office no later than **November 15, 1991**. Please retain the second copy for your records.

2. **Please read all instructions carefully, question by question, before you answer the questionnaire**. Make your responses as complete and accurate as possible. Give estimates where you must, but please do not make wild guesses. Use the "FOOTNOTES" section freely to expand upon or clarify your responses (see page 4 of the questionnaire).

3. All questions assume **a fiscal year ending June 30, 1991. If your library's fiscal year is different, please use the "FOOTNOTES" section to explain.**

4. **Do not leave entries blank**. If your library does not perform a given function, enter **N/A** (Not Applicable). If your library performs a function but data are not available, enter **U/A** (Unavailable). If your library performs a function and keeps records, but had no activity during 1990–91, enter **0** (Zero).

5. Use the same basis for reporting as is used in responding to the regular ARL Statistics questionnaire. For example, if in ARL Statistics you normally include data for a law library and/or a medical library, also include them in response to this questionnaire.

6. Preservation data are not easy to define or to record in precise categories, and preservation terminology is not yet fixed. If you have difficulty interpreting the questionnaire or are uncertain how its data categories apply in your situation, contact Jutta Reed–Scott, ARL Senior Program Officer, (202) 232–2466, BB.JRS@RLG.BITNET.

SPECIFIC INSTRUCTIONS

7. For the purposes of this survey, the elements of a "preservation program" include: **conservation treatment, commercial binding, mass treatment** and **reproduction** (i.e., preservation photocopying and preservation microfilming). While shelf preparation activities (e.g., plating, labeling, insertion of security devices) and stack maintenance have obvious preservation implications and may comprise units that are supervised by the preservation administrator, they fall outside the scope of this questionnaire.

   The terms **commercial binding, conservation treatment, preservation photocopying**, mass deacidification, and **preservation microfilming** are defined in the instructions below.

8. **Question 1.** Does the library have a preservation administrator, whether part–time or full–time, who manages a partial or comprehensive preservation program? If it does not, respond **no** and record **N/A** for questions 2, 3, and 4.

9. **Question 2.** What percentage of the preservation administrator's total job assignment is dedicated to preservation activities and preservation management? If the library has a full-time preservation administrator, general management activities (e.g., meeting attendance, committee work) should be considered an integral part of the administrator's responsibilities, and the answer to this question recorded as 100%. In contrast, where the preservation administrator has a dual assignment (e.g., where he or she also has significant responsibilities as a serials librarian, bibliographer, or curator), the percentage of time devoted to preservation activities and preservation management should be calculated. If the library has no preservation administrator, record **N/A**.

10. **Question 3**. Record the job title (e.g., "Associate Director for Collection Development"), not the name of the person to whom the preservation administrator reports. If the library has no preservation administrator, record **N/A**.

11. **Questions 4-5**. FTE (i.e., "Full-Time Equivalent") is the numerical representation of full- and part-time work activities. A person working full-time is represented by an FTE of 1.0; a person working half-time by an FTE of 0.5. Three persons working half-time are represented by a combined FTE of 1.5. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. **Round figures to the nearest tenth**.

    Record FTE staff in filled positions or positions that are only temporarily vacant on the date that ends the library's fiscal year. Include staff hired for special projects, internships, and grants, but provide an explanatory note in the "FOOTNOTES" section indicating the FTE of such staff. The "FOOTNOTES" section should also be used to record such information as the number of hours worked by volunteers, or the number of months that a full-time position was vacant during the year.

    For the purposes of this survey, report trained professional conservators and photographers (senior practitioners rather than technicians) in the "professional" category, whether or not they have a master's degree in library science.

12. **Question 4**. Only the preservation administrator and staff who report directly to him or her, or to someone supervised by him or her, should be recorded here. If the library has no preservation administrator, or if the administrator does not have direct line responsibility for staff, record **N/A**.

13. **Question 5**. When calculating the FTE staff involved in preservation activities library-wide, the following activities should be included regardless of the department or library to which staff report: conservation, commercial binding preparation, preservation microfilming and photocopying, mass treatment, preservation-related bibliographic searching and decision-making, and quality control.

    This figure should include staff who report to the preservation administrator, as recorded in question #4. The total FTE should reflect preservation staff based on their responsibilities, not on their place in the library's organizational structure. For example, a student assistant who works 0.2 FTE, devoting half-time to pamphlet binding and the rest to non-preservation activities would be included in the "Student Assistants" section of this questionnaire as 0.1 FTE. A staff member who devotes half-time to preparing volumes for commercial binding and half-time to serials check-in would be included as 0.5 FTE.

14. **Questions 6-11**. Sources of funds are irrelevant in responding to questions #6-11. Report all expenditure of funds that come to the library from the regular institutional budget and from other sources, such as research grants and fees for services.

15. **Questions 6–11**. Canadian libraries should report expenditures only in Canadian dollars. These amounts will be translated into U.S. dollars using a conversion exchange rate of 1.1547 Canadian dollars to 1 U.S. dollar, which was determined using the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1990 through June 1991.

16. **Questions 6a–6d**. These questions refer to salaries paid to staff engaged in preservation activities library-wide; therefore record salaries for staff reported in response to question #5. Do not include fringe benefits.

17. **Question 6d**. This answer is the sum of the answers to questions #6a through #6c.

18. **Question 7. Contract expenditures** refers to expenditures for preservation services for which the library is invoiced by an outside vendor, organization, or individual (e.g., a professional conservator, commercial library binder, or commercial microfilming service).

19. **Question 7a.**

> **Conservation treatment:** Refers to the remedial and protective treatment (both mechanical and chemical) of papers, hard-bound and soft-bound volumes, photographic materials, films, magnetic tapes, disks, and other library materials to restore them to usable condition and/or to extend their useful lives. Also refers to the construction of protective enclosures (e.g., wrappers, jackets, boxes) for library materials. The term "conservation" implies item-by-item examination of materials for the purpose of making appropriate treatment decisions, and use of archivally sound methods and materials. For examples of types of conservation treatments see instructions for questions #12–18.

Record fees paid to regional conservation centers and to private conservators. Also record fees paid to commercial binders for conservation services such as box making, deacidification, and encapsulation. If fees paid to commercial binders for phase boxes and other items and treatments have been recorded in the regular 1990–91 *ARL Statistics* on line #20, please note that here to preclude double reporting.

20. **Question 7b.**

> **Commercial binding:** Refers to the binding and rebinding typically performed by commercial library binderies, but in a few institutions performed by university-operated "commercial"-type binderies whose services conform to those described in the *Library Binding Institute Standard for Library Binding,* 8th edition (Rochester: Library Binding Institute, 1986).

This figure should be the same dollar amount reported in the regular 1990–91 *ARL Statistics* on line #21. Any variation from this figure should be explained in the "FOOTNOTES" section.

In libraries where fees are paid to a university-operated "commercial"-type bindery, record expenditures in the blank provided and make a note in the "FOOTNOTES" section of the questionnaire.

21. **Question 7e**. Other contract expenditures might include fees paid for commercial freeze-drying, fumigating, or mass-deacidification of library materials, mass paper strengthening treatment, membership fees for use of regional conservation facilities, and equipment repairs. Use the "FOOTNOTES" section to note the amount and nature of major expenditures.

22. **Question 7f**. This answer is the sum of the answers to questions #7a through #7e.

23. **Question 8**. Supplies include materials used for conservation treatment (e.g., papers, book cloths, adhesives, pamphlet binders, box board, chemicals, expendable filters for water systems); prefabricated archival quality protective enclosures used for storage of papers, microforms, photographs, videotapes, and other library materials (i.e., the boxes, wrappers, file folders, and envelopes available through supply catalogs); paper used for preservation photocopying; and film, chemicals, and other supplies used for preservation microfilming. Expenditures for equipment and tools costing under $100 should be recorded here. Expenditures for security labels and strips, book pockets, call number and bar code labels, and book plates fall outside the scope of this survey and should not be recorded.

    Since use of prefabricated boxes, wrappers, folders, and envelopes can involve a wide variety of library materials (e.g., books, manuscripts, maps, microfiche, microfilm, photographic prints, slides, various recorded sound media), as well as large and diverse supply inventories, statistics for these activities are difficult to collect. For the purposes of this survey, therefore, the expenditures for supplies, as recorded in question #8, will suffice as a measure of effort.

24. **Question 9.** Record expenditures for equipment and tools costing over $100, such as machinery (e.g., board shears, fume hoods, microfilming cameras, photocopy machines used exclusively for preservation photocopying), furniture (e.g., laboratory benches, chemical supply cabinets), and computer hardware purchased for exclusive use by a preservation department for such purposes as conservation management, bindery preparation, and bibliographic searching related to preservation decision making. Capital expenditures for building renovations (e.g., the construction of a conservation facility) or for construction that results in improved housing of library materials (such as replacement of heating, ventilating, and air conditioning systems) should be recorded in the "FOOTNOTES" section rather than here.

25. **Question 10**. This answer is the sum of the answers to questions #6d, #7f, #8, and #9. If you are unable to provide component expenditures but can provide total expenditures, please do so. Certain preservation-related expenses are not requested in this survey (e.g., the cost of staff travel and training, printing brochures and posters, purchasing reference materials). If significant, these should be noted in the "FOOTNOTES" section.

26. **Question 11.** These are expenditures that are funded by special grants from external sources. Examples include staff salaries or the purchase of a major piece of equipment supported by a granting agency to undertake a grant-funded project.

    Record total preservation expenditures that came from external agencies in the form of grants from July 1, 1990 through June 30, 1991 (or the library's equivalent fiscal year). Funds allocated from the library's regular operating budget (including gifts, royalties, endowment income, and special funds provided to the library by its parent institution) are regarded as internal and should not be reflected here.

27. **Questions 12–23.** Contract services are those for which the library is invoiced by an outside organization (e.g., a regional microfilming service), by an individual (e.g., a private conservator), or by a university-operated "commercial"-type bindery. In-house activities are those that are performed within the library and funded through the library's regular operating budget.

28. Questions 12–14. Answers to these questions should be mutually exclusive. **While any given volume may receive several conservation treatments, it should be recorded only once, in response to question #12, 13, or 14, in the category representing the highest level of sophistication.** For example, when an errata sheet is tipped in, it should be recorded only once as a "level 1 treatment" (question #12). Treatment of the pages of a volume or pamphlet should not be recorded under "unbound sheets" (question #16), even if the volume is disbound at the time the pages are treated. Rather, treatment of the volume should be recorded once, in response to question #12, 13, or 14, whichever is appropriate.

When a volume receives conservation treatment and a box is made for it, however, the conservation treatment should be recorded in response to question #12, 13, or 14, and the boxing should be recorded in response to question #18. In the same vein, when the pages of a book are repaired and the book is sent to a commercial bindery, the volume should be recorded in response to both "level 1 conservation treatment" (question #12) and "commercial binding" (question #19). Items that are sent to a commercial bindery without being repaired should not be reported in the "Conservation Treatment" section even if they have been inspected by a conservator.

Conservation encompasses a wide range of treatments, including binding pamphlets and paperbacks in-house, temporary serials binding, tipping-in errata sheets and other inserts, making pockets for loose parts such as maps and charts, slitting uncut pages, making page repairs, removing tapes and stains from pages, repairing text blocks (either before, or instead of sending them out for commercial binding), tightening hinges, replacing endpapers, rebacking, recasing, and rebinding. Treatments range from minor procedures that can be done relatively quickly by technicians to major procedures that require the skill and judgement of a conservator, involve written and photographic documentation, and are mechanically and chemically complex.

Conservation may also include item-by-item remedial treatment (NOT mass treatment) or individual items damaged by water, fire, and mold. For the purposes of this survey, the cost of mass treatments such as freeze drying and fumigation, as recorded in response to question #7e, "other contract expenditures," will suffice as a measure of effort.

Because the nature of procedures and the level of in-house conservation expertise varies significantly from library to library, and the degree of skill required to perform a particular treatment varies case by case, establishing criteria that assigns levels of sophistication to various treatments is problematic. In order to reflect the resource implications of conservation work as uniformly as possible across ARL libraries, treatments should be recorded based on the length of time that they require to perform. Use of archivally sound methods and materials is presumed in all cases.

29. **Question 12.** Level 1 conservation treatments are those that require 15 minutes or less to perform.

30. **Question 13.** Level 2 treatments are those that require more than 15 minutes but less than two hours to perform.

31. **Question 14.** Level 3 conservation treatments are those that require more than two hours to perform.

32. **Question 15.** This answer is the sum of the answers to questions #12–14. **It should reflect the total number of volumes (including pamphlets) that were treated, and not the total number of treatments performed.**

33. Question 16. Unbound sheets include items such as manuscripts, maps, posters, and works of art on paper. Procedures include a variety of remedial mechanical and chemical treatments (e.g., surface cleaning, washing, deacidifying, encapsulating, mounting, matting) that lengthen the life of the item. Include paper repairs that are made using methods and materials that are archivally sound and appropriate for the item being mended. **Report the total number of sheets of paper that were treated, and not the total number of treatments performed.**

34. **Question 17.** Non–paper items include such materials as films, magnetic tapes, disks, globes, and artifacts. Treatment of photographic materials is also reported here. Treatments might include cleaning, splicing, reformatting (e.g., from film to video tape), and duplicating for preservation purposes. The microfilming of photographs, however, should be recorded in response to question #23.

35. **Question 18.** "Custom–fitted enclosures" can be distinguished from the prefabricated boxes and other enclosures identified in question #8 as "supplies," in that the former are custom–made for the item that they are meant to protect, and the latter are standard–size enclosures available from supply catalogs. Custom–fitted enclosures include paper and polyester book jackets, paper and board wrappers, portfolios, phase boxes, double–tray boxes, and other boxes. (Polyester encapsulation of single sheets should not be reported here, but rather, in response to question #16.) Use of archival quality methods and materials is implicit.

36. **Question 19.** Record all volumes commercially bound, whether bound by an outside vendor or by a "commercial"–type university bindery. Include serials binding and commercial pamphlet binding, as well as first–time binding and rebinding of monographs. Include binding done in accordance with the *Library Binding Institute Standard,* and economy styles typically offered by commercial binderies. Enter data under "IN–HOUSE" only if the binding is done within the library using regular library operating funds. If the binding is done by a "commercial"–type university bindery to which the library pays fees for services, enter data under "CONTRACT" and make a note in the "FOOTNOTE" section.

37. **Questions 20–21.**

> **Mass deacidification** is a process by which books and papers are treated to neutralize acidity and to introduce an alkaline buffer. Materials are mass–deacidified in batches, in chambers that hold several (or many) items. Item–by–item deacidification of volumes and papers, as performed by conservators and conservation technicians, should be regarded as conservation treatment and recorded in response to question #14, not here.

While mass deacidification is not yet being carried out routinely by libraries, this question has appeared in earlier *ARL Preservation Statistics* questionnaires to establish base line data. Subsequent annual responses will serve as a measure of growth in deacidification activity over time.

38. **Question 21.** Record the number of linear feet of manuscripts and other papers actually treated, not the number of linear feet of shelving emptied for treatment.

39. **Questions 22.**

> **Preservation photocopying** refers only to items photocopied on paper that has a minimum pH of 7.5, a minimum alkaline reserve equivalent to 2% calcium carbonate based on oven dry weight of the paper, and includes no groundwood or unbleached pulp. Images must be properly fused to the paper.

Record the number of bound volumes and pamphlets photocopied in their entirety (i.e., each page has been photocopied such that a facsimile volume is produced).

40. **Question 23.**

> **Preservation microfilming** includes preparation of materials for microfilming, filming itself, processing, inspection, and subsequent disposition of both film and materials filmed. Adherence to preservation-related American National Standards Institute standards and Association for Information and Image Management standards for film stock, production, and storage is implicit.

Record data only for first-generation microforms. For monographs and serials (including newspapers), record data in all three categories (i.e., "volumes," "titles," "exposures"), if possible. For materials such as archives, manuscripts, maps, and photographs, record exposures only. Because this is likely to capture information on diverse types of materials, use the "FOOTNOTES" section to indicate the nature of major projects. A FOOTNOTE entry might read "1,590 photographs filmed from the 19th Century Russian Collection; 12,493 manuscripts filmed from the Johnson Historical Collection."

An "exposure" is one frame of film. Please indicate in a footnote if the number of exposures reported includes all filming, or if the number reflects only filming of such materials as archives, manuscripts, maps, and photographs, where no title or volumes counts are available.

Include data for projects that are undertaken cooperatively with other libraries, but not for commercial projects in which the library participates (such as a situation in which a commercial vendor borrows library materials for filming and subsequent sale of the film). When the library serves as a commercial microfilming vendor for another institution, this filming should be recorded by the library that contracts to have the filming done, and not by the filming library.

Record preservation microform masters that result from the copying of non-archival or damaged film. Use the "FOOTNOTES" section to indicate what percentage of all master negative film is produced by copying existing film, rather than by filming original material.

Dissertations that are sent to University Microfilms International for filming should not be recorded.

FOOTNOTES TO THE ARL PRESERVATION STATISTICS, 1990-91

Institution	Category from Main Tables *(Table,Column)*	Notes
ALABAMA		Excludes Law and Medical Libraries.
	I-1	No preservation administrator in Law or Health Sciences Libraries.
	I-3-10	Since 1990 more staff have been involved in preservation activity. One professional staff and five nonprofessional staff attended the SOLINET Preservation Workshop during 1990-91.
ALBERTA		Figures are for fiscal year ending March 31, 1991.
		Includes Law and Medical Libraries, and Faculte St.-Jean.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $383,114; (2) $0; (3) $147,327; (4) U/A; (5) U/A; (6) $0; (7) $147,327; (8) $14,000; (9) $650; (10) $545,090; (11) $0; (13) $18,077,524; (15) $4,954,431.
ARIZONA		Excludes Health Science and Law Libraries.
ARIZONA STATE		Excludes Law Library and includes West Campus Library.
	I-3,II-1	Figures do not reflect 1 Preservation Professional FTE vacant until June 1991.
BOSTON		Includes Law, Medical, and Theology Libraries.

Institution	Category from Main Tables *(Table,Column)*	Notes
BOSTON PUBLIC		Preservation activities are administered by departments with a Preservation Laboratory attached to the Rare Books Department.
BRIGHAM YOUNG		Figures are for fiscal year ending August 31, 1991.
		Excludes Law Library and branch campus libraries at Brigham Young University Hawaii Campus and Jerusalem Center.
BRITISH COLUMBIA		Includes Law and Medical Library, branch campuses and the Biomedical Branch Library at Vancouver General Hospital.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $307,493; (2) $10,000; (3) $244,422; (4) $196; (5) $0; (6) $10,410; (7) $265,028; (8) $4,917; (9) $1,067; (10) $578,504; (11) $0; (13) $21,486,217; (15) $6,173,341.
BROWN		Includes Medical Library; excludes J. Carter Brown Library.
	II-3	Figure does not include medical binding expenses ($11,692).
	II-5	Microfilming was funded through the RLG/NEH GCMP II Grant.
	II-6	Fee for Conservation Information Network is included.
	IV-9	Figures reflect master negative reels. Excludes duplicating negatives and positive use copy.
CALIF., BERKELEY		Excludes Law Library.

Institution	Category from Main Tables *(Table,Column)*	Notes
CALIF., BERKELEY (cont.)	II-3	The figure reported for library binding includes expenditures for the Law Library and a few other departmental libraries for which no other preservation statistics are reported. Excluding these libraries, Berkeley spent $740,000 on library binding.
	I-7-10	Due to budgetary reductions staff engaged in preservation activities library-wide decreased by 57%.
	III-4	Figure includes conservation treatments taking less than fifteen minutes, for which Berkeley does not keep separate statistics.
CALIF., DAVIS		Excludes Law, Medical, and Health Sciences Libraries.
	I-3-6;II-1	Preservation Administrator position vacant 43 months. Last funded at salary level of $54,000. Conservation Treatment Assistant position (.50 FTE) vacant 13 months. Last funded at salary level of $10,500.
	II-3	Includes University Bindery. Excludes Law and Medical Libraries included in figure reported to 1990-91 *ARL Statistics* ($355,939).
	II-6	Includes commercially-available reprints purchased to replace existing brittle volumes.
	III-3	Represents the University of California Preservation Program.
CALIF., IRVINE		Includes figures for Medical Library.
CALIF., LOS ANGELES		Includes Law and Medical Libraries.
	II-2	Includes $3,140 also included in expenditures from external sources (II-11).

Institution	Category from Main Tables *(Table, Column)*	Notes
CALIF., LOS ANGELES (cont.)	II-3	Figure does not include $3,140 included in line II- 2 (Contract Conservation) and $55,000 included in line II-8 (Supplies). Total amount of $674,258 reported to 1990-91 *ARL Statistics*.
	II-8	Includes $47,911 also included in line II-11.
CALIF., SAN DIEGO		Includes Medical Library.
	III-21,22	Excludes 2,759 manuscript pages that were preservation photocopied.
CALIF., SANTA BARBARA	III-4,6	Volumes given level 2 and level 3 treatment included in level 1 (III-2).
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION	II-1-11,13,15	Figures in Canadian dollars were: (1) N/A; (2 N/A; (3) $38,257; (4) N/A; (5) N/A; (6) N/A; (7) $33,257; (8) N/A; (9) N/A; (10) $33,132; (11) N/A; (13) $25,633,112; (15) $8,399,096.
CASE WESTERN RESERVE		Includes Law and Medical Libraries. Excludes Mandel School of Applied Social Sciences Library.
	II-11	Other institutions requesting books through ILL agreed to fund original microfilming of these titles as they were too brittle to go out.
	II-12	Health Sciences transferred eight reels of film to video cassette for preservation.
CHICAGO		Includes Law and Medical Libraries. Library Photoduplication Laboratory reports to Preservation Librarian, but operation is cost-recovery and library pays for services.
	I-3,10	Excludes photoduplication staff.

Institution	Category from Main Tables *(Table,Column)*	Notes
CHICAGO (cont.)	II-1	Excludes photoduplication staff.
	II-5	Includes Library's Photoduplication Laboratory.
	III-15	Includes phase boxes produced by the commercial binder.
	IV-5,9	The figure includes the work produced by the Photoduplication Laboratory for the University of Chicago Library. Work produced for other institutions by the Laboratory has not been included.
CINCINNATI		Includes Law and Medical Libraries. Excludes branch libraries Raymond Walters College and Clermont College.
COLORADO		Includes Medical Library; excludes Law Library.
	II-3	Figure reported to the 1990-91 *ARL Statistics* ($163,934) includes Law Library expenditures.
COLUMBIA		Includes Medical Library; excludes Law Library.
	I-6	Includes 20.6 FTE hired for special projects.
	II-2	Fees to vendors for protective enclosures were reported in the 1990-91 *ARL Statistics*.
	II-3	Figure reflects preservation grant projects and includes Law Library expenditures ($55,280).
	II-6	Includes fees for stack cleaning and inventory as part of a major NEH-funded preservation project.

Institution	Category from Main Tables *(Table,Column)*	Notes
CONNECTICUT		Includes Medical, Law and Greater Hartford Campus Libraries.
		Excludes branch campus libraries at Avery Point, Stanford, and Waterbury, and Litchfield County Center for Higher Education.
	II-2	Includes costs of 281 gray/white phase boxes, 276 lignin-free phase boxes, 12 deluxe phase boxes, and 60 double-tray boxes purchased from commercial binder and charged to commercial binding budget.
	II-3	Figure differs from the $254,531 reported to the 1990-91 *ARL Statistics* because expenditures for protective enclosures made by the commercial binder ($10,092) have been subtracted (see line II-2).
	II-11	Figure represents a contribution made by *Daily Campus*, the University's student newspaper, to support microfilming cost for the Library's holdings of that newspaper.
	III-2	All treatments were performed in the Conservation Unit of the Preservation Department except 300 pamphlet bindings (level 1 treatment) performed at the Law Library.
	III-12	The figure represents 750 videotapes cleaned and evaluated and 10 repaired.
	III-17	Figure represents 441 maps from the Map Library collections.
CORNELL		Excludes Medical, Law and Geneva Libraries.
	II-3	Includes Law Library expenditures included in figure reported to 1990-91 *ARL Statistics*.
DARTMOUTH		Includes Medical Library.

Institution	Category from Main Tables *(Table,Column)*	Notes
DARTMOUTH (cont.)	II-11	$56,000 represents funding from NEH U.S. Newspaper Project. The funds were expended by Dartmouth, but the material filmed is not from Dartmouth's collections and is not included in the production statistics in section IV.
	IV-2-4,6-8,10-12	Excludes material funded through Dartmouth for the U.S. Newspaper Project.
DELAWARE		Includes Marine Studies Library at the University of Delaware Marine Studies Research Complex in Lewes, Delaware.
	II-3	Figure reported to 1990-91 *ARL Statistics* ($191,881) includes amount reported on line (II-2). Conservation activities also included 12,450 videotapes cleaned and wound, and 4,984 manuscript sheets photocopied.
DUKE		Includes Law, Medical, and Fuqua School of Business Libraries. 1990 was the first year the Duke University Library had a Preservation Officer who had 100% responsibility for preservation activities through decentralized work areas. Monies were budgeted for preservation and other staff allocated as necessary. Maintenance of the program is anticipated.
EMORY		Includes Law, Medical, Theology, and Oxford College Libraries.
	I-10	Does not include staff performing decentralized conservation.
	II-10	Does not include $3,548 for communications cost, staff development, and other administration expenses.

Institution	Category from Main Tables *(Table,Column)*	Notes
EMORY (cont.)	IV-2	Manuscripts from the Joel Chandler Harris Collection filmed as part of the RLG APMP project.
FLORIDA		Excludes Law and Medical Libraries, Jacksonville Center Library, and Institute of Food and Agricultural Science Extension Library.
	II-3	Excludes expenditures for Law and Medical Libraries included in figure reported to 1990-91 ARL Statistics ($317,877).
FLORIDA STATE		Excludes Panama City Branch, Law Library and Developmental Research School.
	II-3	Includes Law Library expenditures included in figure reported to 1990-91 *ARL Statistics*.
GEORGETOWN		Includes Law and Medical Libraries.
	I-3-6	Only Law Library has a preservation administrator. Data only applies to Law Library.
GEORGIA		Includes Law Library, Agricultural Experiment Stations at Griffin and Tifton, and Marine Experiment Stations at Sapelo and Skidaway.
GUELPH		Figures are for fiscal year ending April 30, 1991.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $110,000; (2) $8,000; (3) $107,376; (4) $1,000; (5) N/A; (6) N/A; (7) $116,376; (8) $25,000; (9) $12,000; (10) $236,376; (11) $1,000; (13) $7,740,737; (15) $2,545,011.
HARVARD		Includes Law and Medical Libraries.

Institution	Category from Main Tables *(Table,Column)*	Notes
HAWAII		Excludes Law Library.
HOUSTON		Excludes Law Library, branch libraries Downtown, at Clear Lake, and Victoria.
	II-3	Excludes Law Library expenditures included in figure reported to 1990-91 *ARL Statistics*.
HOWARD		Includes Law and Medical Libraries.
ILLINOIS, CHICAGO		Includes Medical Library.
		The Library has a Resident Librarian charged with undertaking preservation related tasks about 50% time in FY 92. The Acquisitions Librarian position is vacant in FY 92; that position will include preservation administration duties.
ILLINOIS, URBANA		Includes Law Library.
	II-3	Includes expenditures for 360 protective enclosures.
INDIANA		Includes Medical Library. Excludes Law Library and branch campuses at Indianapolis, Richmond, Ft. Wayne, Kokomo, Gary, South Bend, and New Albany.
	II-3	Includes Law Library expenditures included in figure reported to the 1990-91 *ARL Statistics*.
	II-6	Figure represents Vault rental for master microfilm negative storage at National Underground Storage.
	II-11	Figure represents CIC Cooperative microfilming project.

Institution	Category from Main Tables *(Table,Column)*	Notes
INDIANA (cont.)	IV-1,5,9	Slavic periodicals filmed for CIC Cooperative microfilming project.
IOWA		Includes Law and Medical Libraries. A full time Preservation Librarian was added in FY 90-91. Also, the Law Library significantly increased its personnel devoted to binding activities.
IOWA STATE	IV-9	Exposures reported include all filming.
JOHNS HOPKINS		Includes School of Advanced International Studies, Peabody Conservatory, Applied Physics Lab, and Welch Medical Libraries. Excludes Italy Center (Bologna); China Center (Nanjing); and Institute for the History of Medicine.
KANSAS		Includes Law Library, the Regents Center (Overland Park), and the University of Kansas Medical Center in Kansas City. Excludes Clendening History of Medicine Library, Kansas City and the University of Kansas School of Medicine in Wichita.
	II-3	Excludes Medical Library expenditures included in figure reported to 1990-91 *ARL Statistics*.
KENT STATE		Excludes branch campus libraries at Ashtabula; East Liverpool; Geauga; Salem; Stark; Trumbull; and Tuscarawas.
	II-3	Excludes expenditures for branch campus libraries reported to the 1990-91 *ARL Statistics*.
KENTUCKY		Includes Law and Medical Libraries.

Institution	Category from Main Tables *(Table,Column)*	Notes
KENTUCKY (cont.)		Excludes branch campus libraries at Lexington; Prestonburg; Madisonville; Ashland; Somerset; Hopkinsville; Louisville; Elizabethtown; Cumberland; Maysville; Paducah; Owensboro; Hazard; and Henderson.
	I-3-6	Includes Preservation/Binding Units, Microfilm Center, and the Kentucky Newspaper Project. In previous years, the Microfilm Center and the Kentucky Newspaper Project were included only in library-wide figures.
	II-3	Includes $1,727 in contract conservation expenditures.
LAVAL		All figures are for fiscal year ending May 31, 1991.
	II-3	Includes only special contracts and binding supplies. Most binding done in-house. Figure reported to the 1990-91 *ARL Statistics* also includes expenditures for contract preservation microfilming ($35) and preservation supplies ($55,000).
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $277,118,; (2) N/A; (3) $21,130; (4) N/A; (5) $35; (6) N/A; (7) $21,165; (8) $55,343; (9) N/A; (10) $353,626; (11) $0; (13) $14,114,111; (15) $3,522,098.
LIBRARY OF CONGRESS		Figures are for the fiscal year ending September 30, 1991.
	I-5	Student FTE are interns with stipends from foundation or universities. One was part-time summer hire.
	I-7-10	Includes Motion Picture/Broadcasting/ Recorded Sound Division.
	II-5	Includes funds allocated by the Custodial Divisions at the Photoduplication facility for in-house microfilming.

Institution	Category from Main Tables *(Table,Column)*	Notes
LIBRARY OF CONGRESS (cont.)	II-11	Includes $85,000 donated to the Motion Picture/Broadcasting/ Recorded Sound Division.
	IV-2,4,6,8,10,12	Figures represent units actually shot by the Library of Congress Photoduplication Service, and not items prepared in a year by the Preservation Microfilm Office (PMO).
LINDA HALL		All figures are for fiscal year ending December 31, 1990.
	I-1-2	Preservation Administrator's position vacant 3 months (Oct-Dec 1990).
	II-6	Expenditure for freezer storage space for water damaged serials.
LOUISIANA STATE		Excludes Law and School of Veterinary Medicine Libraries.
	II-3	Excludes expenditures for Law Library reported to 1990-91 *ARL Statistics*.
MCGILL		Includes Law, Medical, and Macdonald College Libraries.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $75,280; (2) $0; (3) $190,365; (4) $0; (5) $0; (6) $0; (7) $190,365; (8) $2,000; (9) $0; (10) $267,645; (11) $0; (13) $16,956,075; (15) $4,845,609.
MCMASTER		All figures are for fiscal year ending April 30, 1991.
		Excludes Medical Library.
	II-3	Excludes Medical Library expenditures included in figure reported to 1990-91 *ARL Statistics*.

Institution	Category from Main Tables *(Table,Column)*	Notes
MCMASTER (cont.)	II-1-1,13,15	Expenditures in Canadian dollars were: (1) $171,642; (2) $0; (3) $120,000; (4) N/A; (5) $7,928; (6) $0; (7) $127,928; (8) $41,810; (9) $0; (10) $341,380; (11) $0; (13) $11,515,000; (15) $4,693,098.
MANITOBA		Statistics are for fiscal year ending March 31, 1991.
		Includes Law and Medical Libraries.
	II-11	Figure represents residual funds grant from University Administration.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $61,004; (2) N/A; (3)$ 160,898; (4) N/A; (5) N/A; (6) N/A; (7) $160,898; (8) $5,471; (9) $26,916; (10) $254,289; (11) $26,916; (13) $11,346,257; (15) $3,001,434.
	III-10	High increase in number of unbound sheets given conservation treatment due to 3 months encapsulation project.
	III-15	Decrease in number of items commercially bound due to reduced binding budget and price increases.
MIAMI		Includes Law and Medical Libraries and Rosentiel School of Marine and Atmospheric Science Library.
	II-5	The University of Miami is a participant in preservation microfilming project under a National Endowment for the Humanities grant. The project is sponsored and managed by the Association of Southeastern Research Libraries (ASERL) and the Southeastern Library Network, Inc. (SOLINET). The figure shown represents the University of Miami's contribution in dollars, and covers bibliographic verification costs, shipping, insurance and other miscellaneous expenses. Actual filming costs are paid by SOLINET.

Institution	Category from Main Tables *(Table, Column)*	Notes
MIAMI (cont.)	III-10	The figure relates solely to work performed by specialists. It excludes routine work performed by non-specialists even though it yields a conservation benefit.
	IV-1	Work completed as part of ASERL/SOLINET preservation microfilming project. See footnote (1) above.
MIT		Two building projects during 1990-91 resulted in great improvements to the housing for two collections. Both projects were paid for by Institute funding. 1) New exterior roof and AC equipment for the building housing 450,000 low use volumes. Estimated cost: $800,000. 2) Complete renovation, plus construction of addition for the Rotch Library of Architecture and Planning. Cost estimate for preservation-related work is not available, but climate control for collections was an important feature of the project. A special collections facility is included in the new space.
MICHIGAN		Includes Medical Library. Excludes Law Library, Bentley Historical Collections, Clements Library, Kresge Business Administration Library, and branch campus libraries at Dearborn and Flint.
	II-1	As salary figures for staff engaged in preservation activities library-wide are unavailable, the figures given in each of the categories in this question reflect only those staff employed in the Preservation Division.
	II-8	Includes supplies purchased with Preservation Division funds for use both within and outside the division.
	II-9	Includes equipment purchased with Preservation Division funds for use both within and outside the division.

Institution	Category from Main Tables *(Table,Column)*	Notes
MICHIGAN (cont.)	II-3	Excludes expenditures for Law and Business Libraries included in figure reported to 1990-91 *ARL Statistics*.
	II-10	Excludes expenditure of $85,051 from institutional funds for the purchase of commercially available replacements.
MINNESOTA		Includes Medical, Crookston, Duluth, Morris and Waseca Libraries. Excludes Law Library.
	II-3	Excludes expenditures for Law Library included in figure reported to 1990-91 *ARL Statistics*.
MISSOURI		Includes Medical Library. Excludes Law Library and branch campus libraries at Kansas City, Rolla, and St. Louis.
NATIONAL AGRICULTURAL LIBRARY		Figures are for fiscal year ending September 30, 1991.
	II-3	Figure reported to 1990-91 *ARL Statistics* ($100,000) was an estimate.
NATIONAL LIBRARY OF CANADA		Figures are for fiscal year ending March 31, 1991.
	II-1	Figures are estimates based on the median rates of pay for the relevant categories of staff as of April 1, 1988.
	II-5	Figure represents National Library of Canada's and Universities' share of expenditures for the Canadian Theses on Microfiche Service.
	II-8	Figure includes: mass deacidification supplies ($160,945); preservation supplies ($68,700); conservation treatment supplies ($56,226).

Institution	Category from Main Tables *(Table,Column)*	Notes
NATIONAL LIBRARY OF CANADA (cont.)	II-9	Figure does not include conservation treatment equipment ($56,226), included in II-8 (supplies).
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $616,818; (2) $0; (3) $56,199; (4) $0; (5) $280,000; (6) $5,906; (7) $342,105; (8) $285,871; (9) $18,437; (10) $1,263,231; (11) $40,374; (13) $36,471,699; (15) $3,589,553.
NATIONAL LIBRARY OF MEDICINE		Figures are for the fiscal year ending September 30, 1991.
	II-2-7	Contract figures are for amounts obligated in FY91 rather than amounts spent. They do not correlate with production figures since only completed work is reported in sections III and IV. Most of the completed work was paid for with funds obligated in FY 90.
	II-3	Figure is the amount budgeted for 1990-91.
	II-6	Other contract expenditures include: Binding Preparation ($231,235), Microfilm Inspection ($71,200), Microfilm Storage ($12,500), Microfilm Duplication ($25,000), Motion Picture Duplication ($39,900).
	IV-9	The number of exposures reflects all filming, i.e., 5,481 monographs and serials.
NEBRASKA		Excludes Law Library.
	II-2	Excludes fees paid to a commercial bindery for protective enclosures, etc., which are included in line II-3.
	II-3	Excludes Law Library expenditures included in figure reported to 1990-91 *ARL Statistics*.
NEW MEXICO		Excludes Law and Medical Libraries.
	II-3	Includes expenditures for Law and Medical Libraries reported to 1990-91 *ARL Statistics*.

Institution	Category from Main Tables *(Table,Column)*	Notes
NEW MEXICO (cont.)	III-15-16	Includes figures for Law and Medical Libraries.
NEW YORK		All figures are for fiscal year ending August 31, 1991.
		Includes Law and Medical Libraries.
NEW YORK STATE LIBRARY		Figures are for the fiscal year ending March 31, 1991.
	I-5,9	Student FTE in the Preservation Unit of the Library is hired on a cooperative basis with SUNY Albany School of Information Science and Policy.
NORTH CAROLINA		Law and Medical Library figures are included for the first time.
	I-7-10	Includes grant-funded staff.
	III-4	Pamphlet binders were made in-house.
	III-8	7 volumes and 5 linear feet of manuscripts were freeze-dried.
NORTH CAROLINA STATE		Includes Veterinary Medicine Library.
NORTHWESTERN		Includes Law Library, Schaffner Library, Science and Engineering and Branch campus Libraries.
		Figures are for fiscal year ending August 31, 1991.
	I-4,5	1 FTE support staff and 1 FTE student staff hired for grant project.
	II-3	Includes Law, Medical and Dental Libraries expenditures included in figure reported to the 1990-91 *ARL Statistics*.

Institution	Category from Main Tables *(Table,Column)*	Notes
NOTRE DAME		Includes Law Library.
OHIO STATE		Includes Law and Medical Libraries.
	I-4; II-1	Excludes 1.25 nonprofessional FTE vacant during FY 90-91.
	II-3	Figure for FY 90-91 is uncharacteristically high, a result of a bookkeeping error in FY 89-90; the 1990-91 figure moderates the uncharacteristically low figure reported for FY 89-90.
	II-7	Other expenditures include automated bindery records system ($2,516) and rental of underground storage for master microforms ($500).
OKLAHOMA		Includes Law and Medical Libraries.
OKLAHOMA STATE		Includes OSU Technical Branch in Oklahoma City; OSU Technical Branch in Okmulgee; and College of Osteopathic Medicine and Surgery in Tulsa.
OREGON		Includes Law Library; excludes Mathematics Library.
	II-8	Figure provided is an estimate.
PENNSYLVANIA		Includes Law and Medical Libraries.
PENNSYLVANIA STATE		Excludes Medical Library.
	III-12	Includes 20,000 photos from the Darrah Collection and 2,000 from the Scranton Collection.

Institution	Category from Main Tables *(Table,Column)*	Notes
PITTSBURGH		Includes Medical Library. Excludes Law Library, Western Psychiatric Institute and Clinic, and branch campus libraries at Bradford, Greensburg, Johnstown, and Titusville.
	II-3	Includes expenditures for Law Library includes in figure reported to 1990-91 *ARL Statistics*.
PRINCETON	I-3	Includes 3 FTE professional positions vacant throughout FY90-91, as well as .8 FTE professional management position funded through microfilming project grants.
	I-4	Includes 3 FTE nonprofessional positions funded through microfilming project grants.
	I-7	Includes 1 FTE professional cataloging position funded through microfilming project grant.
	I-8	Includes 1 FTE nonprofessional cataloging position funded through microfilming project grant.
	II-1	Excludes unexpended salaries for position vacant throughout FY 90-91.
	IV-1,5,9	Figures represent work produced through two grant-funded microfilming projects: RLG GCMP I (3412 Volumes, 3344 titles, 226,902 exposures); NEH Arabic Project (1821 volumes, 1558 titles, 292,046 exposures).
	IV-10,12	Includes non-bound format materials which are not represented under volumes and titles figures. Exact breakdown is U/A.
PURDUE		Excludes branch libraries at Calumet and Westville.
QUEEN'S		Figures are for fiscal year ending April 30, 1991.

Institution	Category from Main Tables *(Table,Column)*	Notes
QUEEN'S (cont.)		Includes Law, Health Sciences, and Education Libraries. Excludes preservation activities in the University archives.
	I-3-6	Excludes Law, Health Sciences, and Education Libraries.
	II-9	Included in line II-8.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $69,400; (2) N/A; (3) $165,798; (4) N/A; (5) N/A; (6) N/A; (7) $165,798; (8) $5,000; (9) N/A; (10) $240,198; (11) N/A; (13) $10,406,395; (15) $4,065,002.
ROCHESTER		Includes School of Medicine and Dentistry; Sibley Music Library; and Eastman School of Music.
	II-6	Includes expenditures for installation of solar control window film ($3,241) and consulting fees ($2,391).
RUTGERS		Includes Law Library and services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark and New Brunswick.
SASKATCHEWAN		Includes Law and Medical Library.
	II-1-11,13,15	Figures in Canadian dollars were: (1) $144,892; (2) $4,389; (3) $132,683; (4) N/A; (5) N/A; (6) N/A; (7) $137,072; (8) $5,161; (9) N/A; (10) $287,125; (11) $0; (13) $9,967,203; (15) $4,033,116.
	III-2	Statistics for routine mending done in Circulation and Branch Libraries, i.e., outside of central Binding unit reporting to the Associate Director and Special Collections, are unavailable.
SMITHSONIAN		Figures are for fiscal year ending September 30, 1991.

Institution	Category from Main Tables *(Table,Column)*	Notes
SMITHSONIAN (cont.)		Includes branch campus libraries of the Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; Cooper-Hewitt Museum in New York City; Smithsonian Tropical Research Institute in the Republic of Panama, and Smithsonian Environmental Research Center, Edgewater, MD. Excludes the libraries of Hirshhorn Museum and Sculpture Garden; Woodrow Wilson International Center for Scholars; Freer Gallery of Art; National Museum of American Art; and National Portrait Gallery.
	I-6,10	2 FTE nonprofessional positions in the Preservation Services Department and 1 FTE professional position in the Book Conservation Lab were vacant for FY 1991. Capital expenditure for construction of Brittle Books and Binding section offices was $40,000.
SOUTH CAROLINA		Includes Law and Medical Libraries. Excludes branch campus libraries at Aiken, Salkehatchie, Beaufort, Lancaster, Spartanburg, Sumpter and Union.
SOUTHERN CALIFORNIA		Includes Law and Medical Libraries and Arnold Schoenberg Institute Archives.
SOUTHERN ILLINOIS		Includes Law Library; excludes Medical Library.
STANFORD		Includes the Hoover Institution (fiscal year is September 1, 1990 to August 31, 1991) and Hopkins Marine Station. Excludes Law and Medical Libraries, Graduate School of Business Library, and the Stanford Linear Accelerator Center Library.

Institution	Category from Main Tables *(Table,Column)*	Notes
STANFORD (cont.)	I-4	The figure for professional staff includes a Mellon Preservation Intern.
	II-7-8	Excludes expenditures for Law, Medical, Business, and Stanford Linear Accelerator Center Libraries included in figure reported to the 1990-91 *ARL Statistics*.
	II-12	Exposures include 54 boxes (71,762 pp) of manuscripts.
SUNY, ALBANY		Includes Thomas E. Dewey Library of the Rockefeller College of Public Affairs and Policy.
		Figures are for fiscal year ending June 30, 1991.
	II-12	Figure reflects change in fiscal year for this institution.
	IV-10	Manuscript materials filmed as part of externally funded Capital District Labor History Project.
SUNY, BUFFALO		Includes Law and Medical Libraries.
		Fiscal year changed during this period. Figures represented are annualized based on 15 months figures, April 30, 1990 to June 30, 1991. Subsequent years will be based on fiscal year ending June 30.
SUNY, STONY BROOK		Figures are for fiscal year ending March 31, 1991.
		Includes Medical Library.
	II-11	Figure represents special New York State grant for conservation of cartographic materials.
SYRACUSE		Excludes Law Library.

Institution	Category from Main Tables *(Table,Column)*	Notes
SYRACUSE (cont.)	II-3	Includes expenditures for Law Library included in figure reported to 1990-91 *ARL Statistics*.
	II-6	Includes Commission on Preservation and Access funding.
	III-12	Includes 300 running hours of preservation re-recording of deteriorating audio materials.
		During 1990/91 two major renovation projects were undertaken by the University, which created space for the new Preservation Department. Also a climate-control system was installed for the protection of the Special and General Collections stored at the Hawkins remote storage facility.
TEMPLE		Includes Law and Medical Libraries, and branch libraries at Ambler, Tyler School of Art, and Temple University Center City.
TENNESSEE	II-8	Excludes Law Library and branch campus libraries at Chattanooga, Martin, and Memphis.
TEXAS		Includes Law Library. Excludes the McDonald Observatory Library and the Marine Science Institute Library at Port Arkansas.
	II-1-2	The Harry Ransom Humanities Research Center employs 1 FTE Chief Conservation Officer who reports to the Director of the Center. The full-time Preservation Officer for the General Libraries reports to the Deputy Assistant Director for Collection Development. The Tarlton Law Library does not have a preservation administrator nor a preservation department.
	I-4	Includes .9 FTE employed solely for NEH Benson Latin American Collection grant.

Institution	Category from Main Tables *(Table,Column)*	Notes
TEXAS (cont.)	I-7	Includes 1.9 FTE professionals devoted to grant projects: 1 to NEH Texas Newspaper Grant; .5 to NEH Benson Latin American Collection Preservation Grant; .4 to NEH Benson Latin American Collection Access Grant.
	I-8	Includes 4.9 FTE dedicated to grant projects: 2.7 to NEH Texas Newspaper Grant; 1.8 to NEH Benson Latin American Collection Preservation grant; .4 to NEH Benson Latin American Collection Access Grant.
	II-2-3	Figures for General Libraries only.
	II-9	Figure includes General Libraries only.
	II-11	Includes figures for General Libraries only and includes funds for NEH Texas Newspaper Project Grant, NEH Benson Latin American Collection Preservation Grant, NEH Benson Latin American Collection Access Grant, the Kemper Foundation of Galveston and University of Texas School of Architecture.
	III-21-22	Contract photocopying and preservation microfilming activity is for General Libraries only.
	IV-1,5,9	Contract roll microfilm production includes 967 volumes, 887 monograph titles and 117,569 exposures of the NEH Benson Latin American Collection Preservation grant. Also 12 newspaper titles and 166,288 exposures are from the NEH Texas Newspaper Project.
TEXAS A&M		Excludes Medical Library.
	IV-2	89 ft. of roll film produced in-house.
	IV-4	63 sheets of microfiche produced in-house.

Institution	Category from Main Tables *(Table,Column)*	Notes
TORONTO	II-3	Includes Medical Library. Excludes Law Library, Scarborough College, Erindale College and all of Federated Colleges. Figures are for fiscal year ending April 30, 1991.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $519,034; (2)U/A; (3) $326,382; (4) N/A; (5) $15,340; (6) NA; (7) $341,721; (8) $34,796; (9) $5,267; (10) $900,819; (11) $15,339; (13) $32,829,063; (15) $9,017,947.
TULANE		Law and Medical Libraries are included. Excludes expenditures for Latin American Library included in figures reported to 1990-91 *ARL Statistics*.
UTAH		Excludes Law and Medical Libraries.
	IV-1,5,9	Includes 52 newspapers filmed as part of the Utah Newspaper project.
VANDERBILT		Includes the Law and Medical Libraries.
	II-10	Total preservation expenditures reflect better data gathering and more awareness of preservation funding throughout the library system rather than a budget increase.
VPI & SU		Includes Northern Virginia Graduate Center in Falls Church, VA.
VIRGINIA		Includes Law and Medical Libraries.
	II-2	Expenditures ($12,977) included in Line II-3 (Contract Bindery).
	II-3	Includes contract conservation ($12,977) and preservation supplies of pamphlet binders ($15,262).

Institution	Category from Main Tables *(Table,Column)*	Notes
VIRGINIA (cont.)	II-8	Pamphlet binder supplies ($15,262) are included in Line II-3 (Contract Bindery).
WASHINGTON		Includes Law and Medical Libraries and new branch campuses of Bothell and Tacoma.
	III-1-14	Excludes Law Library figures.
	IV-9	Figure represents newspapers.
	IV-11	Contract fiche exposures are for Law Library.
WASHINGTON STATE		Excludes branch Campuses of Spokane; Tri-Cities; Vancouver.
	II-10	Total preservation expenditures unavailable because salary figures are unavailable.
WASHINGTON, ST. LOUIS		Includes Law and Medical Libraries.
WATERLOO		Special Collections Librarian and the Co-ordinator of Collections Management oversee conservation activities. The primary initiative continues to be replacement/rebinding of books in the Collection and binding new books on entry. Brittle books are placed in storage. Oversewing is replaced with sewing through the fold with our commercial binder.
	II-1-11,13,15	Figures in Canadian dollars were: (1) $199,050; (2) $1,688; (3) $103,306: (4) $0; (5) $0; (6) $0; (7) $104,944; (8) $4,025; (9) $0; (10) $308,069; (13) $10,809,201; (15) $3,945,403.
WAYNE STATE		Figures are for the fiscal year ending September 30, 1991.
		Includes Law and Medical Libraries, Reuther Library and Archives of Labor and Urban Affairs.

Institution	Category from Main Tables *(Table,Column)*	Notes
WISCONSIN		Excludes Law and Medical Libraries.
	I-4	Includes 5 bindery preparation staff.
	II-3	Excludes expenditures for Law and Medical Libraries included in figure reported to 1990-91 *ARL Statistics*.
YALE		Includes Law and Medical Libraries.
	III-12	Includes 1080 preservation checks run on 3/4" video tapes.
	III-22	15,780 pages from Manuscript and Archives Collection.
YORK		Includes Law Library and Glendon Campus. Figures are for fiscal year ending April 30, 1991.
	II-1-11,13,15	Expenditures in Canadian dollars were: (1) $77,083; (2) $N/A; (3) $217,743,; (4) N/A; (5) N/A; (6) N/A; (7) $217,743; (8)$1,858; (9) N/A; (10) $296,684; (11) N/A; (13) $13,802,254; (15) $3,890,843.

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